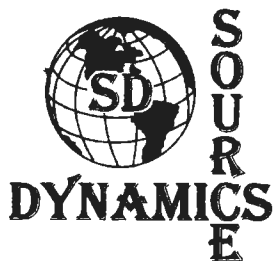


# **EPA Reg. No. 82542-17**



June 20, 2009

Document Processing Desk  
Office of Pesticide Programs (P7504C)  
Environmental Protection Agency  
Room S-4900, One Potomac Yard (South Building)  
2777 S. Crystal Drive  
Arlington, VA 22202

Attn: Venus Eagle (PM 01), Insecticide-Rodenticide Branch, Registration Division (7505C)

Dear Ms. Eagle:

Subject: Imidacloprid 75% WDG Insecticide: EPA Reg. No. ~~8242-17~~ Final Printed Label

82542-17

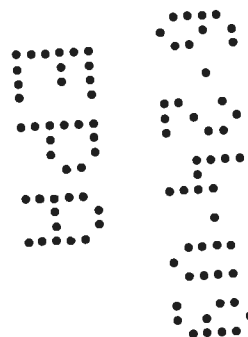
Thank you for your Notice of Pesticide Registration dated April 23, 2009. Please find enclosed a final printed label and Form 8570-1.

Sincerely,

Rufus Bastian, President  
Source Dynamics LLC  
rbastian@solerasd.com

10039 E. Troon North Drive  
Scottsdale, AZ 85262

Tel. 480.502.9289



Fax 480.502.9268



United States  
Environmental Protection Agency  
Washington, DC 20460

☒ Registration  
☐ Amendment  
☐ Other

OPP Identifier Number

## Application for Pesticide - Section I

1. Company/Product Number 82542-17	2. EPA Product Manager Venus Eagle	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Imidacloprid 75% WDG Insecticide	PM# 01	
5. Name and Address of Applicant (Include ZIP Code)  Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale, AZ 85262  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated 4/23/2009
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Submission of final printed label.

## Section - III

## 1. Material This Product Will Be Packaged In:

Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container

3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container	4. Size(s) Retail Container 1 quart	5. Location of Label Directions <input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling accompanying product
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6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled	<input checked="" type="checkbox"/> Other plastic sleeve
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## Section - IV

## 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Rufus Bastian	Title President	Telephone No. (Include Area Code) 480-502-9289
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## Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete.  
I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature 	3. Title President
4. Typed Name Rufus Bastian	5. Date June 20, 2009

6. Date Application Received  
(Stamped)

NOT REVIEWED  
In Accordance with PR Notice 82-2  
Based on Draft Labeling Dated  
APR 23 2009

## IMIDACLOPRID 75% WDG INSECTICIDE

For control of listed insects in labeled crops, turfgrass (including sod farms), landscape ornamentals, fruit and nut trees and interior landscapes

### ACTIVE INGREDIENT

Imidacloprid:

1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinime.....75.0%

OTHER INGREDIENTS.....25.0%

TOTAL.....100.0%

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See inside label booklet for First Aid, Precautionary Statements and Directions for Use



### Manufactured for:

Source Dynamics LLC

10039 E. Troon North Drive

Scottsdale, AZ 85262

EPA Reg. No. : 82542-17

EPA Est. No.:

Net Contents: 1 pound

FIRST AID	
If swallowed:	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If on skin or clothing:	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If in eyes:	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact Chemtrec at 1-800-424-9300 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
No specific antidote is available. Treat the patient symptomatically.	

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

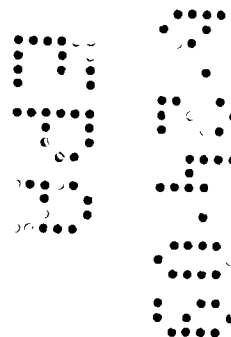
Harmful if swallowed, inhaled, or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing dust or vapor. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Keep children or pets off treated area until spray is dry.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

**WPS USES:** Applicators and other handlers who handle this product for any use covered by the Worker Protection Standard (40 CFR part 170) – in general, agricultural plant uses e.g., use in sod farms, must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment, PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.



**NON-WPS USES:** Applicators and other handlers who handle this product for any use NOT covered by the Worker Protection Standard (40 CFR part 170) – in general, only agricultural plant uses are covered by the WPS, must wear:

- Shirt and pants
- Chemical-resistant gloves made of any waterproof material such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton
- Shoes plus socks

#### **ENGINEERING CONTROLS STATEMENTS**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **USER SAFETY RECOMMENDATIONS**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to wildlife and highly toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

**OBSERVE THE FOLLOWING PRECAUTIONS WHEN MIXING AND APPLYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS; MARSHES OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS:**

#### **SPRAY DRIFT MANAGEMENT**

The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

**Mixing and Loading Requirements**

To avoid potential contamination of groundwater, the use of a properly designed and maintained containment pad for mixing and loading of any pesticide into application equipment is recommended. If containment pad is not used, maintain a minimum distance of 25 feet between mixing and loading areas and potential surface to groundwater conduits such as field sumps, uncased well head, sinkholes or field drains.

**For Aerial Applications**

The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used, and must not exceed 75% of the wing span or rotor diameter.

**Importance of Droplet Size**

An important factor influencing drift is droplet size. Small droplets (<150-200 microns) drift to a greater extent than large droplets. Within typical equipment specifications, applications should be made to deliver the largest droplet spectrum that provides sufficient control and coverage. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure.

Spray should be released at the lowest possible height consistent with good pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

**Wind Speed Restrictions**

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size, canopy and equipment specifications determine drift potential at any given wind speed. Do not apply when winds are greater than 15 mph and avoid gusty and windless conditions. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

**Restrictions During Temperature Inversions**

Do not make aerial or ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however if fog is not present, inversions can also be identified by the movement of smoke from a ground source. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical mixing.

**Airblast (Air Assist) Specific Instructions for Tree Crops and Vineyards**

Airblast sprayers carry droplets into the canopy of trees/vines via a radially or laterally directed air stream. The following specific management practices should be followed:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy;
- Block off upward pointed nozzles when there is no overhanging canopy;
- Use only enough air volume to penetrate the canopy and provide good coverage;
- Do not allow the spray to go beyond the edge of the cultivated area (i.e., turn off sprayer when turning at end rows);
- Only spray inward, toward the orchard or vineyard, for applications to the outside rows.

#### **No-Spray Zone Requirements for Foliar Applications**

Do not apply by ground within 25 feet, or by air within 150 feet of lakes; reservoirs; rivers; permanent streams, marshes or natural ponds; estuaries and commercial fish farm ponds.

#### **Runoff Management**

Do not cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip. When used on erodible soils, Best Management Practices for minimizing runoff should be employed. Consult your Natural Resources Conservation Service for instructions in your use area.

#### **Endangered Species Notice**

Under the Endangered Species Act, it is a Federal Offense to use any pesticide in a manner that results in the death of a member of an endangered species. Consult your local county bulletin, County Extension Agent, or Pesticide Lead Agency for information concerning endangered species in your area.

#### **Resistance Management**

Certain insects may develop resistance to insecticides after repeated use. Use different resistance management practices including rotating classes of insecticides will help delay or minimize insect resistance.

Source Dynamics Imidacloprid 75% WDG Insecticide contains the active ingredient imidacloprid which is a Group A Insecticide. Repeated use of Group A insecticides may lead to insects that become resistant to imidacloprid or other neonicotinoids (Group 4A) insecticides.

To reduce the chances of development of resistance to Group 4A insecticides, do not make more than three consecutive applications of Source Dynamics Imidacloprid 75% WDG Insecticide and/or other Group 4A insecticides with similar modes of action. In addition, Source Dynamics strongly recommends the use of other insecticides with a different mode of action prior to or after application of Source Dynamics Imidacloprid 75% WDG Insecticide. This strategy of insecticide rotation in concert with other IPM practices is considered an effective way to delay or minimize an insect's ability to develop resistance to this class of chemistry.

Additional information on insect resistance management may be obtained from your local extension specialist, certified crop advisor and/or product manufacturer, or from the Insecticide Resistance Action Committee (IRAC) on the web at <http://irac-online.org/>.



### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**Do not formulate this product into other end-use products.**

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

**Exception:** If the product is applied by drenching, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton
- Shoes plus socks

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep children and pets off treated area until dry.

## CROP USES

Make applications of Source Dynamics Imidacloprid 75% WDG Insecticide as a broadcast or directed foliar spray. Follow the directions below to obtain optimum control when using Source Dynamics Imidacloprid 75% WDG Insecticide

- Use Source Dynamics Imidacloprid 75% WDG Insecticide in a sufficient volume of water to ensure a thorough, uniform coverage of foliage. Include a spray adjuvant to help increase spray coverage. Inadequate coverage and wash-off of Source Dynamics Imidacloprid 75% WDG Insecticide from foliage will result in a delay of insect control or in poor insect control.
- Use properly calibrated ground and/or air application equipment unless otherwise specified. Refer to the specified rates under each crop for spray volumes for ground and air applications.

Source Dynamics Imidacloprid 75% WDG Insecticide may also be applied by overhead chemigation (see additional CHEMIGATION DIRECTIONS FOR USE section below) if allowed in the crop specific sections of this label.

The use of Source Dynamics Imidacloprid 75% WDG Insecticide on crops grown for production of true seed intended for private or commercial planting is not supported but may be allowed under State-specific supplemental labeling. Caution must be used to minimize exposure of Source Dynamics Imidacloprid 75% WDG Insecticide to honey bees and other pollinators. Delay applications until after bloom on crops requiring bee pollination. Do not apply Source Dynamics Imidacloprid 75% WDG Insecticide for a minimum of 10 days prior to bloom. Your local Source Dynamics representative, Cooperative Extension Service, PCAs, or consultants can provide additional information on Source Dynamics Imidacloprid 75% WDG Insecticide uses for these crops.

Do not apply more than 0.5 lbs. active ingredient per acre per crop season, regardless of formulation or method of application, unless specified otherwise under the applications section for a given crop.

Do not apply Source Dynamics Imidacloprid 75% WDG Insecticide in enclosed structures such as Greenhouses or Planthouses.

### Mixing Directions

To prepare a spray tank of Source Dynamics Imidacloprid 75% WDG Insecticide, follow the steps below:

1. Add 50% of the total amount of water to the spray tank. Begin agitation.
2. Add the appropriate amount of Source Dynamics Imidacloprid 75% WDG Insecticide.
3. Complete filling the tank with the remaining amount of water needed. Agitate during both mixing and application.

Source Dynamics Imidacloprid 75% WDG Insecticide may also be applied with other pesticides and/or fertilizer solutions. Before mixing or applying these tank mixtures, read the Compatibility Testing section below. Prepare tank mixtures of Source Dynamics Imidacloprid 75% WDG Insecticide and other pesticides as directed above and follow the suggested Order of Mixing for Tank-Mixes below.

**Compatibility Testing**

Before adding Source Dynamics Imidacloprid 75% WDG Insecticide or other products to a spray tank, carry out a compatibility test. Use a pint or quart jar with a lid and add proportionate amounts of each ingredient to the jar in the appropriate order. Cap the jar and shake for 5 minutes. Let the mixture sit for 5 minutes. If the mixture forms a precipitate that cannot be re-dispersed or mixes poorly, then the mixture should not be used.

**Order of Mixing for Tank-Mixes**

When tank-mixing Source Dynamics Imidacloprid 75% WDG Insecticide with other products, use the following order of mixing:

1. Source Dynamics Imidacloprid 75% WDG Insecticide and other wettable powders
2. Flowables (suspension concentrates)
3. Emulsifiable concentrates.

During the mixing process, agitate the solution. Add the next product only after the previous one has been thoroughly mixed. When adding a fertilizer solution, a fertilizer pesticide compatibility agent may be needed. Continue agitation of the spray solution during mixing and until application is complete to ensure the spray mixture remains uniform.

**CHEMIGATION DIRECTIONS FOR USE**

Refer to the Directions for Use section of this label before proceeding with chemigation application.

**Types of Irrigation Systems**

Chemigation applications of Source Dynamics Imidacloprid 75% WDG Insecticide may be made to crops through overhead chemigation systems if permitted in the crop specific sections of this label. Do not apply Source Dynamics Imidacloprid 75% WDG Insecticide through any other type of irrigation system.

**Water Volume**

Source Dynamics Imidacloprid 75% WDG Insecticide chemigation applications should be made as concentrated as possible. Retention of Source Dynamics Imidacloprid 75% WDG Insecticide on target site of insect infestation is necessary for optimum activity. Chemigation of Source Dynamics Imidacloprid 75% WDG Insecticide in water volumes exceeding 0.1 inch/Acre is not recommended.

**Uniform Water Distribution and System Calibration**

The irrigation system must provide uniform distribution of treated water. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

**Chemigation Monitoring**

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

**Drift**

Do not apply when wind speed favors drift beyond the area intended for treatment.

**Required System Safety Devices**

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

**Using Water from Public Water Systems**

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and to the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional automatic quick-closing check valve to prevent the flow of fluid back toward the injection. The pesticide injection pipeline must contain a functional normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

**ROTATIONAL CROP RESTRICTIONS**

Crops listed on imidacloprid labels or crops that have existing tolerances for imidacloprid may be planted in treated areas as soon as practical after the last imidacloprid application. Crops that are not found on an imidacloprid label, or crops that do

not have existing tolerances for imidacloprid, may not be planted in treated areas for 12-months after the last application. Refer to the table below for plantback intervals for different crops. Note that if cover crops are planted any time after an Source Dynamics Imidacloprid 75% WDG Insecticide application, those crops may not be grazed or harvested for food or feed.

Crops	Plantback Interval
All crops on this label plus the following crops not on this label: barley, canola, corn (field, sweet and pop), rapeseed, sorghum, sugar beet, and wheat	No restrictions
Cereals (including buckwheat, millet, oats, rice, rye, and triticale), soybeans, safflower	30 days
Onion and bulb vegetables	10 months
All other crops	12 months

#### FIELD CROPS

##### Application Directions

Use Source Dynamics Imidacloprid 75% WDG Insecticide at the rates specified in the tables below as a broadcast or directed foliar spray. Begin treatments when areas become infested and as the pest populations begin to build. Optimum results are achieved when Source Dynamics Imidacloprid 75% WDG Insecticide is applied in sufficient water to provide a thorough, uniform coverage of foliage and crops. To improve spray coverage, add a spray adjuvant to the spray solution. If crops are infested with heavy insect populations Source Dynamics Imidacloprid 75% WDG Insecticide may not result in knockdown control. In those situations, a second application may be required, but monitor field to determine if a second application is necessary. Improved control of some pests and knockdown of insect pests may be obtained with a mixture of Source Dynamics Imidacloprid 75% WDG Insecticide and other registered insecticides.

##### COTTON

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Cotton Tank Mixes With Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
<b>Pests Controlled:</b> Bandedwinged whitefly Bollworm/Budworm (ovicidal effect)	0.7 – 1.3 oz. per Acre		

### COTTON ( Cont'd )

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Cotton Tank Mixes With Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
Cotton aphid Cotton fleahopper Green stink bug Plant bugs (excludes <i>Lygus hesperus</i> ) Southern Green stink bug			Pre-Harvest Interval (PHI): 14 days.  Do not apply more than 6.5 oz. (0.31 lb. A/A) per Acre per season.  Wait 7 days between applications.  Do not graze treated fields.
<b>Suppression only:</b> Lygus bug ( <i>Lygus hesperus</i> ) Whiteflies (other than bandedwinged whitefly)	1.0 – 1.3 oz. per Acre		
<b>For early season control of</b> Insects listed above plus: Thrips	0.7 – 1.0 oz. per Acre	Bidrin® 8: 1.6 – 3.2 oz. per Acre	
<b>For mid to late season control of</b> Insects listed above plus: Cotton leafperforator Grasshoppers Plant bugs Saltmarsh caterpillar Stink bugs (including Brown stink bug)		Bidrin 8: 4.0 – 8.0 oz. per Acre  Read the Bidrin 8 label for precautions and other specific directions for use.	

### POTATO

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
Aphids Colorado potato beetle Flea beetles Leafhoppers Psyllids	1.0 oz. per Acre	Pre-Harvest Interval (PHI): 7 days. Wait 7 days between applications. Do not apply more than 4.0 oz. (0.19 lb. A/A) Source Dynamics Imidacloprid 75% WDG per Acre per crop season.

**TOBACCO**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
Aphids	0.5 – 1.1 oz. per Acre	Pre-Harvest Interval (PHI): 14 days.
Flea beetles Japanese beetle	1.1 oz. per Acre	Wait 7 days between applications.  Do not apply more than 6.0 oz. (0.28 lb. AI/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.

**VEGETABLE AND SMALL FRUIT CROPS****Application Directions**

Use Source Dynamics Imidacloprid 75% WDG Insecticide at the rates specified in the tables below as a broadcast or directed foliar spray. Begin treatments when areas become infested and as the pest populations begin to build. Optimum results are achieved when Source Dynamics Imidacloprid 75% WDG Insecticide is applied in sufficient water to provide a thorough, uniform coverage of foliage and crops. To improve spray coverage, add a spray adjuvant to the spray solution. If crops are infested with heavy insect populations Source Dynamics Imidacloprid 75% WDG Insecticide may not result in knockdown control. In those situations, a second application may be required, but monitor field to determine if a second application is necessary. Improved control of some pests and knockdown of insect pests may be improved with a mixture of Source Dynamics Imidacloprid 75% WDG Insecticide and other registered insecticides.

The crops which are listed as being covered under a Crop Group are subject to change by EPA. Consult EPA's website ([www.epa.gov](http://www.epa.gov)) for the most recent crops included under Crop Groups.

**FRUITING VEGETABLES**

Includes the crops in Crop Group 8: Eggplant, Ground cherry, Okra, Pepper (including bell, chili, cooking, pimento, and sweet), Tomato, Pepinos, Tomatillo

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
Aphids Colorado potato beetle Leafhoppers Whiteflies	1.0 oz. per Acre	Pre-Harvest Interval (PHI): 0 days.  Wait 5 days between applications.

# FRUITING VEGETABLES ( Cont'd )

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
Pepper weevil (Peppers only) <sup>1</sup>	1.6 oz. per Acre	Do not apply more than 5.0 oz. (0.23 lb. A/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season  Do not use on crops grown for seed unless accompanied by state-specific supplemental labeling.

<sup>1</sup>Pepper weevil: Begin applications before insect pressure becomes high enough to cause damage. Make applications using ground equipment only. Ensure the foliage and fruit receive a thorough coverage of spray solution. Incorporate Source Dynamics Imidacloprid 75% WDG Insecticide applications into a full-season program in which other insecticides from different classes of chemistry and different modes of action are employed in a blocked or windowed approach. Additional information can be obtained from your Source Dynamics representative, Extension Specialist or crop advisor.

# GLOBE ARTICHOKE

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
Aphids Leafhoppers	1.1 – 2.7 oz. per Acre	Pre-Harvest Interval (PHI): 7 days.  Wait 14 days between applications.  Do not apply more than 10.7 oz. (0.5 lb. A/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.

# HEAD and STEM BRASSICA VEGETABLES

Includes the crops in Crop Group 5: Broccoli, Broccoli raab (rapini), Brussels sprouts, Cabbage, Cauliflower, Cavalo broccoli, Chinese (gai lon) broccoli, Chinese (bok choy) cabbage, Chinese (napa) cabbage, Chinese mustard (gai choy) cabbage, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens, Turnip (tops or leaves)



#### LEAFY VEGETABLES

Includes the crops in Crop Group 4: Amaranth (leafy amaranth, Chinese spinach, tampala), Arugula (roquette), Chervil, Chrysanthemum (edible leaved and garland), Cilantro, Com salad, Cress (garden), Cress (upland, yellow rocket, winter cress), Dandelion, Dock (sorrel), Endive (escarole), Lettuce (head and leaf), Orach, Parsley, Purslane (garden and winter), Radicchio (red chicory), Spinach (including New Zealand and vine (Malabar spinach, Indian spinach)), Watercress (commercial production only\*\*), Watercress (upland)

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
Aphids Flea beetles Leafhoppers Whiteflies	1.0 oz. per Acre	Pre-Harvest Interval (PHI): 7 days Wait 5 days between applications. Do not apply more than 5.0 oz. (0.23 lb. A/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season. For applications made to watercress, drain water from all production fields at least 24 hours before application. Water must not be reapplied to the field for a minimum of 24 hours after application. Apply only to fully leafed-up canopies.  **Do not apply to native cress growing in streams or other bodies of water.  Do not use on crops grown for seed unless accompanied by state-specific supplemental labeling.

#### LEGUME VEGETABLES

Includes the crops in Crop Group 6 (except soybean, dry): Edible Podded and Succulent Shelled Pea and Bean and Dried Shelled Pea and Bean

[Bean (*Lupinus* spp., including grain lupin, sweet lupin, white lupin, and white sweet lupin), Bean (*Phaseolus* spp., including field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean), Bean (*Vigna* spp., including adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean,

mung bean, rice bean, Southern pea, urd bean, yardlong bean), Pea (*Pisum* spp. Including dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea), Other Beans and Peas (Broad bean (fava), Chickpea (garbanzo bean), Guar, Jackbean, Lablab bean (hyacinth bean), Lentil, Pigeon pea, soybean (immature seed), Sword bean)]

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
Aphids Leafhoppers Whiteflies	0.9 oz. per Acre	Pre-Harvest Interval (PHI): 7 days Wait 7 days between applications.  Do not apply more than 2.8 oz. (0.13 lb. A/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.  Do not use on crops grown for seed unless accompanied by state-specific supplemental labeling.

#### ROOT, TUBEROUS and CORM VEGETABLES

Includes the crops in Crop Group 1 (except sugarbeet): Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Beet (garden)\*, Burdock (edible)\*, Canna (edible, Queensland arrowroot), Carrot\*, Cassava (bitter & sweet)\*, Celeriac\*, Chayote (root), Chervil (turnip-rooted)\*, Chickory\*, Chufa, Dasheen (taro)\*, Ginger, Ginseng, Horseradish, Leren, Parsley (turnip-rooted), Parsnip\*, Radish\*, Oriental radish (daikon)\*, Rutabaga\*, Salsify (black)\*, Salsify (oyster plant), Salsify (Spanish), Skirret, Sweetpotato\*, Tanier (cocoyam)\*, Turmeric, Turnip\*, Yam bean (jicama, manioc pea), Yam (true)\*

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
Aphids Flea beetles Leafhoppers Whiteflies	0.9 oz. per Acre	Pre-Harvest Interval (PHI): 7 days. Wait 5 days between applications.  Do not apply more than 0.9 oz. (0.044 lb. A/A) per Acre on Radishes, and no more than 2.8 oz. (0.13 lb. A/A) per Acre on other crops.

**ROOT, TUBEROUS and CORM VEGETABLES ( Cont'd )**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
		Do not make more than 1 application per crop season on Radishes and no more than 3 applications per season on other crops.  Do not use on crops grown for seed unless accompanied by state-specific supplemental labeling.  *Tops or greens from these crops may be used for food or feed.

**STRAWBERRY**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
Aphids Spittlebugs Whiteflies	1.0 oz. per Acre	Pre-Harvest Interval (PHI): 7 days.  Wait 5 days between applications.  Do not apply more than 3.0 oz. (0.14 lb. A/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.  Do not apply during bloom or within 10 days prior to bloom or when bees are actively foraging.

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**TREE, BUSH and VINE CROPS**

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**Application Directions**

Use Source Dynamics Imidacloprid 75% WDG Insecticide at the rates specified in the tables below as a broadcast or directed foliar spray. Begin treatments when areas become infested and as the pest populations begin to build. Optimum results are achieved when Source Dynamics Imidacloprid 75% WDG Insecticide is applied in sufficient water to provide a thorough, uniform coverage of foliage and crops. To improve spray coverage, add a spray adjuvant to the spray solution. If crops are infested with heavy insect populations Source Dynamics Imidacloprid 75% WDG Insecticide may not result in knockdown control. In those situations, a second application may be required, but monitor field to determine if a second application is necessary.

Improved control of some pests and knockdown of insect pests may be improved with a mixture of Source Dynamics Imidacloprid 75% WDG Insecticide and other registered insecticides. Applications made by air may not provide quick control or desired control as compared to results obtained from ground applications. NOTE: the rates specified in the tables below for tree and vine crops are based on trees and vines that are full-size and mature.

The crops which are listed as being covered under a Crop Group are subject to change by EPA. Consult EPA's website ([www.epa.gov](http://www.epa.gov)) for the most recent crops included under Crop Groups.

#### **BUSHBERRY**

Includes the crops in Crop Subgroup 13: Blueberry, Currant, Elderberry, Gooseberry, Huckleberry, Juneberry, Lingonberry, Salal

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
Aphids Leafhoppers/Sharpshooters	0.8 – 1.1 oz. per Acre	Pre-Harvest Interval (PHI): 3 days. Wait 7 days between applications.  Do not apply more than 10.7 oz. (0.5 lb. AI/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.  Do not make more than 5 applications per crop season.
Blueberry maggot Japanese beetles (adults) Thrips	1.6 – 2.1 oz. per Acre	Apply in a minimum of 20 gal. water per acre by ground and 5 gal. water per acre by air.  Do not apply pre-bloom or during bloom or when bees are actively foraging.

#### **CITRUS**

Includes the crops in Crop Group 10: Calamondin, Citrus citron, Citrus hybrids (includes chironja, tangelo and tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Pummelo, Orange (sweet and sour), Tangelo, Satsuma mandarin, White sapote (*Casimiroa* spp.), and other cultivars and/or hybrids of these

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
<b>PESTS CONTROLLED:</b> Aphids Asian citrus psyllid Black fly Leafhoppers/Sharpshooters Leafminers Mealybugs Scales <sup>1</sup> Whiteflies	2.7 – 5.3 oz. per Acre (depending on tree size, target pest and infestation pressure)	Pre-Harvest Interval (PHI): 0 days. Wait 10 days between applications. Do not apply more than 10.7 oz. (0.5 lb. A/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season. Do not apply during bloom or within 10 days prior to bloom or when bees are actively foraging.
<b>SUPPRESSION ONLY:</b> Thrips	2.7 – 5.3 oz. per Acre	
<sup>1</sup> Scales: Begin application at the crawler stage, and treat succeeding generations.		

#### GRAPE

Includes American bunch grape, Muscadine grape and Vinifera grape

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
Leafhoppers/ Sharpshooters Mealybugs	0.8 – 1.0 oz. per Acre	Pre-Harvest Interval (PHI): 0 days. Wait 14 days between applications. Do not apply more than 2.0 oz. (0.1 lb. A/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.
Grapeleaf skeletonizer <sup>1</sup>	1.0 oz. per Acre	
<sup>1</sup> Grapeleaf skeletonizer: Optimum control is achieved from ground applications that provide a thorough coverage of foliage. Aerial applications may provide suppression.		

#### HOPS

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
Aphids	2.1 oz. per Acre	Pre-Harvest Interval (PHI): 28 days. Wait 21 days between applications. Do not apply more than 6.4 oz. (0.3 lb. A/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.

# **PECAN**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
Aphids (use the higher rate for Black pecan aphid) <i>Phylloxera</i> Spittlebugs	0.9 – 1.9 oz. per Acre	Do not apply after shuck split. Wait 10 days between applications. Do not apply more than 7.5 oz. (0.35 lb. AI/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season. Do not use in California unless accompanied by supplemental labeling.

# **POME FRUIT**

Includes the crops in Crop Group 11: Apple, Crabapple, Loquat, Mayhaw, Pear (including Oriental pear), Quince

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
Leafhoppers <sup>1</sup>	1.2 – 2.1 oz. per Acre	Pre-Harvest Interval (PHI): 7 days.
Aphids (except woolly apple aphid) <sup>2</sup> Leafminers <sup>3</sup> San Jose scale <sup>4</sup>	2.1 oz. per Acre	Wait 10 days between applications. Do not apply more than 10.7 oz. (0.5 lb. AI/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.
<b>PEARS ONLY</b> Mealybugs <sup>5</sup> Pear psylla	5.3 oz. per Acre	Do not apply pre-bloom or during bloom or when bees are actively foraging.

<sup>1</sup>**Leafhoppers:** Use the lower rate for low to moderate infestations of white apple leafhopper. The higher rate is used for high white apple leafhopper populations or to control other leafhopper species. Time applications to occur when most leafhoppers are in the nymphal stage.

<sup>2</sup>**Rosy apple aphid:** apply before leafrolling is observed.

<sup>3</sup>**Leafminers:** Begin applications to control first generation leafminers as soon after pollination is completed and bees are no longer in the orchard. Early timing is critical for best control of this pest. To control second and succeeding generations, apply early in the adult flight against egg and early instar larvae. Make a second repeat application if required (i.e., for continued severe pressure, overlap of generations) but wait 10 days between applications. Note that Source Dynamics Imidacloprid 75% WDG will not control late stage larvae. Suppression may result from a single application.

<sup>4</sup>**San Jose Scale:** Begin application at the crawler stage, and treat succeeding generations.

<sup>5</sup>**Mealybug:** Best results are obtained when the trunk and limbs (or other places where mealybugs rest) are thoroughly covered with Source Dynamics Imidacloprid 75% WDG sprays applied at the maximum gal. per acre.

**STONE FRUIT**

Includes the crops in Crop Group 12: Apricot, Cherry (including sweet and tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh and dried)

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
<b>PESTS CONTROLLED:</b> Aphids Green June beetle Japanese beetle Leafhoppers/Sharpshooters Plant bugs Rose chafer San Jose scale	1.1 – 2.1 oz. per Acre	<b>All Crops</b> Do not apply pre-bloom or during bloom or when bees are actively foraging.  <b>Apricot, Nectarine, Peach:</b> Pre-Harvest Interval (PHI): 0 days.  Wait 7 days between applications.  Do not apply more than 6.4 oz. (0.3 lb. A/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.  Apply in a minimum of 50 gal. water per acre by ground and 25 gal. water per acre by air.
Cherry fruit fly (maggot of Eastern and Western)	1.6 – 2.1 oz. per Acre	<b>Cherries, Plums, Plumcot, Prune:</b> Pre-Harvest Interval (PHI): 7 days.  Wait 10 days between applications.  Do not apply more than 10.7 oz. (0.5 lb. A/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.
<b>SUPPRESSION ONLY:</b> Plum curculio Stink bugs	2.1 oz. per Acre	Apply in a minimum of 50 gal. water per acre by ground and 25 gal. water per acre by air.

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
<b>PESTS CONTROLLED:</b> Aphids Leafhoppers/Sharpshooters Thrips Whiteflies <b>SUPPRESSION ONLY:</b> Scales	2.1 oz. per Acre	Pre-Harvest Interval (PHI): 7 days. Wait 10 days between applications. Do not apply more than 10.7 oz. (0.5 lb. A/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season. Do not apply pre-bloom or during bloom or when bees are actively foraging.

#### OTHER CROPS

##### Application Directions

Use Source Dynamics Imidacloprid 75% WDG Insecticide at the rates specified in the tables below as a broadcast or directed foliar spray. Begin treatments when areas become infested and as the pest populations begin to build. Optimum results are achieved when Source Dynamics Imidacloprid 75% WDG Insecticide is applied in sufficient water to provide a thorough, uniform coverage of foliage and crops. If crops are infested with heavy insect populations Source Dynamics Imidacloprid 75% WDG Insecticide may not result in knockdown control. In those situations, a second application may be required, but monitor field to determine if a second application is necessary. Improved control of some pests and knockdown of insect pests may be improved with a mixture of Source Dynamics Imidacloprid 75% WDG Insecticide and other registered insecticides.

##### POPLAR/COTTONWOOD

Includes members of the genus *Populus* grown for pulp or timber

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
Aphids Leaf beetles	1.1 – 2.1 oz. per Acre	Wait 10 days between applications. Do not apply more than 10.7 oz. (0.5 lb. A/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season. Do not use in California unless accompanied by supplemental labeling.

##### CHRISTMAS TREE

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
Adelgids <sup>1</sup> Aphids Sawflies	1.1 – 2.1 oz. per Acre	Wait 7 days between applications. Do not apply more than 10.7 oz. (0.5 lb. A/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.



**CHRISTMAS TREE ( Cont'd )**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions and Precautions
<sup>1</sup> Gall-forming adelgids: Apply at full bud-swell or first bud-break of earliest bud-breaking trees. Once galls form, applications of Source Dynamics Imidacloprid 75% WDG will not be effective.		

**TURF USES****Application Directions**

Source Dynamics Imidacloprid 75% WDG Insecticide controls the larvae of listed insect pests found in turfgrass and suppresses larvae of cutworms and chinchbugs in turfgrass. Treatment areas include turfgrasses found around the home, multi-family residential complexes, business and office complexes, shopping centers, parks, playgrounds, athletic fields, golf courses, airports, cemeteries, and sod farms.

The residual activity of Imidacloprid, the active ingredient in Source Dynamics Imidacloprid 75% WDG Insecticide, allows applications of Source Dynamics Imidacloprid 75% WDG to be made just before egg-laying. If applied just before or during egg-laying, Source Dynamics Imidacloprid 75% WDG Insecticide provides excellent control of target pest larvae. To determine the timing of an application, use information from previous year's insect infestations, current season's evaluations, or other methods. You may also consult your local State Agricultural Experiment Station or State Extension Turf Specialists for additional information regarding timing of application.

Source Dynamics Imidacloprid 75% WDG Insecticide provides best results from application before egg-laying along with adequate watering-in (from irrigation or rainfall) to allow the imidacloprid to penetrate the thatch layer and reach the soil where insect larvae often reside. Delay any application of Source Dynamics Imidacloprid 75% WDG Insecticide if the turfgrass is very wet or saturated with water as the imidacloprid will not be evenly distributed in the thatch under these conditions. Ensure that any irrigation is directed vertically so that the imidacloprid moves down into the thatch and soil.

**TURF**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Directions for Application	Restrictions and Precautions
Larvae of: Annual bluegrass Weevil* Asiatic garden beetle Billbugs*	6.4 to 8.6 oz. per Acre (3 to 4 level teaspoons per 1,000 sq. ft.)	Use a sufficient amount of water when applying Source Dynamics Imidacloprid 75% WDG Insecticide and ensure that the product is applied evenly to the treated area.	Do not apply more than 8.6 oz. (0.4 lb. AI/A) per Acre per year.

**TURF ( Cont'd )**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Directions for Application	Restrictions and Precautions
Black turfgrass ataenius Cutworms (suppression) European chafer European Crane Fly* Green June beetle Japanese beetle Northern masked chafer Oriental beetle <i>Phyllophaga</i> spp.* Southern masked chafer	6.4 to 8.6 oz. per Acre (3 to 4 level teaspoons per 1,000 sq. ft.)	Use accurately calibrated equipment that is normally used for the application of turfgrass insecticides. Recalibrate if necessary to verify equipment is operating properly.  Select the proper equipment that produces a uniform, coarse droplet spray. Low pressure settings decrease the chance of drift to non-target areas.  <b>*Note:</b> Make applications before initiation of hatching of eggs of these pests to obtain best control.	Adequate watering-in (from irrigation or rainfall) within 1 day of application allows the imidacloprid to penetrate the thatch layer and provide optimum control.  Delay mowing of turf or lawn until irrigation or rainfall has occurred to ensure a uniform distribution of the product.
Chinchbug (suppression) Mole crickets	8.6 oz. per Acre (4 level teaspoons per 1,000 sq. ft.)	<b>Chinchbug suppression:</b> apply before the first instar nymphs hatch.  <b>Mole Crickets:</b> apply before or during peak egg hatch period. Apply Source Dynamics Imidacloprid 75% WDG Insecticide as a tank mix with another insecticide that controls mole crickets when adult or large nymphs are present and actively tunneling. Follow the instructions on the label for other insecticides when tank-mixing.	
<b>Conversion Units:</b> 3 level teaspoons = 1 level Tablespoon (1 level teaspoon = 1.4 grams Source Dynamics Imidacloprid 75% WDG Insecticide)			

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## ORNAMENTALS

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### Application Directions

Source Dynamics Imidacloprid 75% WDG Insecticide may be used on ornamentals such as trees, shrubs, evergreens, flowers, foliage plants, and groundcovers found in commercial and residential landscapes and interior plantscapes. Imidacloprid, the Active Ingredient (AI) in Source Dynamics Imidacloprid 75% WDG, works by entering the plant through the roots and moving upward. Insects feeding on the plant are controlled or suppressed from exposure to imidacloprid. In order for the product to be effective, Source Dynamics Imidacloprid 75% WDG must be applied when the plant is actively growing and absorbing water and nutrients. Nitrogen fertilizers, when applicable, act as nutrients and may be added to Source Dynamics Imidacloprid 75% WDG spray solutions to help move the imidacloprid into the plant.

Foliar, soil (including soil-injection and soil drenches), and broadcast applications of Source Dynamics Imidacloprid 75% WDG may be made. Source Dynamics Imidacloprid 75% WDG applied foliarly, controls insects quickly by local, systemic activity. When applied to the soil of woody plants, Source Dynamics Imidacloprid 75% WDG control may take longer (in some cases up to 60 days) because the imidacloprid must reach the plant roots and move up and through the plant. To be most effective, apply Source Dynamics Imidacloprid 75% WDG before insects are expected to infest plants.

### Management of Ant Populations

Source Dynamics Imidacloprid 75% WDG Insecticide will control certain listed sucking insects on ornamentals which, in turn, reduces the honeydew available as a food source for ant populations. These Source Dynamics Imidacloprid 75% WDG Insecticide treatments can be useful in addition to traditional ant population control measures such as residual insecticide sprays, use of baits or other ant control programs. **NOTE:** Do not use Source Dynamics Imidacloprid 75% WDG for management of ant populations in commercial greenhouses, nurseries, or on grasses grown for seed, or on commercial fruit and nut trees.

### Foliar Applications

Mix Source Dynamics Imidacloprid 75% WDG Insecticide with the required amount of water and apply using application equipment typically employed for ornamentals.

Some foliage such as holly, pine, or ivy are difficult to wet by foliar applications. Add a spreader/sticker for best results. Note: when applying using concentrate or mist type sprayers, add the same amount of product on the area sprayed as is required in dilute applications.

**Tank-Mixes:** Although Source Dynamics Imidacloprid 75% WDG Insecticide is compatible with other commonly used fungicides, miticides, liquid fertilizers, and insecticides. Conduct a compatibility check prior to using the tank-mix to ensure that the tank-mix is stable.

When making **broadcast applications** to outdoor ornamentals, do not exceed a total of 8.6 oz. (0.4 lb. AI) per Acre per year. Do not apply through any irrigation system.

**TREES, SHRUBS, EVERGREENS, FLOWERS FOLIAGE PLANTS, GROUNDCOVERS, AND INTERIOR PLANTSCAPES**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Directions for Application	Restrictions and Precautions
Adelgids Aphids Japanese beetle Lace bugs Leaf beetles (including elm and viburnum leaf beetles) Leafhoppers (including glassy-winged sharpshooter) Mealybugs Psyllids Sawfly larvae Thrips (suppression) Whiteflies	<u>(level measure)</u>  0.25 tsp. in 2.5 gal. water  0.5 tsp. in 5 gal. water  1 tsp. in 10 gal. water  2.5 tsp. in 25 gal. water  5 tsp. in 50 gal. water  3 Tbsp. + 1 tsp. in 100 gal. water	<b>Foliar Applications:</b> Time applications to begin before insect pressure is high. Make repeat applications as needed.	For use only in and around industrial and commercial buildings and residential areas.
White grub larvae (such as Japanese beetle larvae, Chafers, <i>Phyllophaga</i> spp., Asiatic garden beetle, Oriental beetle)	3 to 4 level teaspoons per 1,000 sq. ft.	<b>Broadcast Applications:</b> Use a sufficient amount of water to ensure a thorough coverage of the treated area. For optimum control, adequate irrigation is required after an application of Source Dynamics Imidacloprid 75% WDG Insecticide to move the imidacloprid into the soil and near the plant roots.  Additional use directions may be found under FLOWERS and GROUNDCOVERS.	Do not apply more than a total of 8.6 oz. (0.4 lb. A/I/A) per Acre per year when making broadcast applications to outdoor ornamentals.  Do not apply in less than 2 gallons of water per 1,000 sq. ft.

**TREES, SHRUBS, FLOWERS AND GROUNDCOVERS**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Directions for Application	Restrictions and Precautions
Adelgids Aphids Armored Scales (suppression) Black vine weevil larvae Emerald ash borer Eucalyptus longhorned borer Flathead borers (including bronze birch borer and alder borer) Japanese beetles Lace bugs Leaf beetles (including elm and viburnum leaf beetles) Leafhoppers (including glassy-winged sharpshooter) Leafminers Mealybugs Pine tip moth larvae Psyllids Royal palm bugs Sawfly larvae Soft scales Thrips (suppression) White grub larvae Whiteflies	<p><b>TREES:</b> 0.7 to 1.4 level tsp. per inch of trunk diameter (D.B.H.) or 1 to 2 oz. per 30 cumulative inches of trunk diameter (D.B.H.)</p> <p>drip line of the tree and extending in from that line. More than one circle must be made depending on the tree size. <b>BASAL SYSTEM:</b> The injection holes must be placed evenly around the base of the tree trunk but no more than 6 to 12 inches out from the base. Use a sufficient amount of water and inject an equal amount of solution in each hole. Use low pressure and enough solution to distribute the liquid into the treatment zone. For optimum control, moisten the treated area by irrigation for 7 to 10 days after the application. Use at least 4 holes per tree. <b>Soil Drench:</b> Apply in a minimum of 10 gallons of water per 1,000 sq. ft. Drench around the base of the tree in a uniform manner but be sure the spray is directed at the root zone. If any plastic or other barrier is present, remove it so that the treatment reaches the root zone. <b>For Control of Specified Borers:</b> If trees have been heavily infested and damaged or under stress, the application may not be effective or prevent the loss of the trees.</p> <p><b>SHRUBS:</b> 0.7 to 1.4 level tsp. per ft. of shrub height or 1 to 2 oz. per 30 cumulative feet of shrub height</p> <p>Using low pressure, apply enough solution to distribute the liquid into the treatment zone. For optimum control, moisten the treated area by irrigation for 7 to 10 days after the application. Use at least 4 holes per shrub. <b>Soil Drench:</b> Apply in a</p>	<p><b>Soil Injection: GRID SYSTEM:</b> Space holes on 2.5 foot centers in a grid pattern that extends to the drip line of the tree. <b>CIRCLE SYSTEM:</b> Apply product in holes spaced in circles under the</p> <p><b>Soil Injection:</b> Use the specified rate for individual plants. Use a sufficient amount of water and inject the same volume of solution into each hole.</p>	<p>For use only in and around industrial and commercial buildings and residential areas and state, national and private wooded and forested areas to control listed insect pests.</p> <p>Do not make Soil Injection Applications in Nassau or Suffolk Counties of New York.</p>

**TREES, SHRUBS, FLOWERS AND GROWDCOVERS ( Cont'd )**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Directions for Application	Restrictions and Precautions
	minimum of 10 gallons of water per 1,000 sq. ft. Drench around the base of the shrub in a uniform manner but be sure the spray is directed at the root zone. If any plastic or other barrier is present, remove it so that the treatment reaches the root zone.		
	<b>FLOWERS AND GROWDCOVERS:</b> 3 to 4 level Tsp. per 1,000 sq. ft.	Make a broadcast application and soil-incorporate the product before planting. Alternatively, make the application after plants have been established. After application to established plants, best control of insects is achieved by irrigation of the treated area.	
<b>Conversion Units:</b> 3 level teaspoons = 1 level Tablespoon (1 level teaspoon = 1.4 grams Source Dynamics Imidacloprid 75% WDG Insecticide)			

**FRUIT AND NUT TREES: Pome Fruit (including Apple, Crabapple, Loquat, Mayhaw, Pear, Pear (oriental), and Quince) AND Pecans**

Insect Larvae	Rate of Source Dynamics Imidacloprid 75% WDG	Directions for Application	Restrictions and Precautions
<b>POME FRUIT:</b> Aphids (except Woolly Apple aphid) <sup>2</sup> Leafhoppers (including glassy-winged sharpshooter) <sup>1</sup> Leafminer <sup>3</sup> Mealybugs <sup>4</sup> San Jose scale <sup>5</sup>	0.5 oz. (3 Tbsp. + 1 tsp.) per 100 gal. (equivalent to 2 oz. per Acre <sup>6</sup> )	Make applications after petal fall.	For use only in and around residential areas. Do not apply more than 2 oz. per Acre per application and do not exceed 5 applications per year. Wait 10 or more days between applications. Waive at least 7 days after application to harvest the crop.

**FRUIT AND NUT TREES: Pome Fruit (including Apple, Crabapple, Loquat, Mayhaw, Pear, Pear (oriental), and Quince) AND Pecans ( Cont'd )**

Insect Larvae	Rate of Source Dynamics Imidacloprid 75% WDG	Directions for Application	Restrictions and Precautions
			*Not registered for use in California for control of these pests on pears. See additional Restrictions, below.
<b>PECANS**:</b> Black margined aphid Pecan leaf phylloxera Pecan spittlebug Pecan stem phylloxera Yellow pecan aphid	0.5 oz. (3 Tbsp. + 1 tsp.) per 100 gal. (equivalent to 2 oz. per Acre*)	Time applications to begin when pest pressure begins but before pressure is heavy. Best control may require two foliar applications 10 to 14 days apart if scouting activities find insect pressure after the first application. Apply Source Dynamics Imidacloprid 75% WDG in sufficient volumes to ensure a thorough, uniform coverage of the foliage. Coverage may be improved by adding an organosilicone-based spray adjuvant. Refer to the label rates specified by the adjuvant's manufacturer.	For use only in and around residential areas. Do not apply more than 6 oz. Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per year and do not exceed 3 applications per year. Wait 10 or more days between applications. **Not registered for use on pecans in California unless accompanied by supplemental labeling. See additional Restrictions, below.

<sup>1</sup>**Leafhoppers:** If a late season (preharvest) control of leafhoppers is required, apply Source Dynamics Imidacloprid 75% WDG when most leafhoppers are in the nymphal stage.

<sup>2</sup>**Rosy apple aphid:** apply before leafrolling is observed.

<sup>3</sup>**Leafminers:** Begin applications as soon after petal fall as possible to control the first generation. To control second and succeeding generations, apply early in the adult flight against egg and early instar larvae. Make a second repeat application if required (i.e., for continued severe pressure, overlap of generations) but wait 10 days between applications. Note that Source Dynamics Imidacloprid 75% WDG will not control late stage larvae. Suppression may result from just a single application.

**FRUIT AND NUT TREES: Pome Fruit (including Apple, Crabapple, Loquat, Mayhaw, Pear, Pear (oriental), and Quince) AND Pecans ( Cont'd )**

Insect Larvae	Rate of Source Dynamics Imidacloprid 75% WDG	Directions for Application	Restrictions and Precautions
<sup>4</sup> <b>Mealybug:</b> Best results are obtained when the trunk and limbs (or other places where mealybugs rest) are thoroughly covered with spray solution. <sup>5</sup> <b>San Jose Scale:</b> Begin application at the crawler stage, and treat succeeding generations. <sup>#</sup> Tree size and amount of foliage on trees will determine the amount of Source Dynamics Imidacloprid 75% WDG required per Acre. This equivalent rate is based on use of 400 gal. per Acre of dilute sprays for larger trees.			
<b>Conversion Units:</b> 3 level teaspoons = 1 level Tablespoon (1 level teaspoon = 1.4 grams Source Dynamics Imidacloprid 75% WDG Insecticide)			

**GRAPES**

Insect Larvae	Rate of Source Dynamics Imidacloprid 75% WDG	Directions for Application	Restrictions and Precautions
Leafhoppers including glassy-winged sharpshooter Mealybugs Grape leaf Skeletonizer	0.5 oz. (3 Tbsp. + 1 tsp.) per 100 gal. (equivalent to 1 oz. per Acre)	Apply in a minimum of 200 gal. per Acre.	For use only in and around industrial and commercial buildings and residential areas.  Do not apply more than 2 oz. Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per year and do not exceed 3 applications per year.  Wait 14 or more days between applications.  Harvest may be made the same day as the last application.  See additional Restrictions, below.
<b>Conversion Units:</b> 3 level teaspoons = 1 level Tablespoon (1 level teaspoon = 1.4 grams Source Dynamics Imidacloprid 75% WDG Insecticide)			



#### RESTRICTIONS FOR TURF AND ORNAMENTAL USES

- Do not graze treated areas or use clippings from treated areas for feed or forage
- Avoid run-off or puddling of irrigation water following application
- Keep children and pets off treated area until dry.
- Avoid application of Source Dynamics Imidacloprid 75% WDG Insecticide to areas which are water-logged or saturated or frozen which will not allow penetration into the root zone of the plant.
- Do not apply more than 8.6 oz. (0.4 lb AI) per Acre per year unless otherwise specified on this label.
- Treated areas may be replanted with any crop specified on this label or with any crop for which a tolerance exists for imidacloprid.
- For crops not listed on this label, or for crops for which no tolerances for imidacloprid have been established, a 12-month plant-back interval is required.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in a cool, dry place and in such a manner as to prevent cross-contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up the spilled material to prevent runoff. Refer to the Precautionary Statements section of this label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste facility.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**WARRANTY STATEMENT: IMPORTANT NOTICE** - Seller warrants that this product conforms to the chemical description and is reasonably fit for purposes stated on the label when used in accordance with the directions and instructions under normal conditions of use; but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

Bidrin® is a registered trademark of the Amvac Chemical Corporation.

# Material to be added to an e-Jacket/Jacket

Reg. No. 82542-17

Description: \_\_\_\_\_

1. ☐ Placement within the e-Jacket/jacket:

- ☐ Default: (chronological, top = newest)
  - ☐ File Location: (PDF page number, i.e., "before page 45")
- \_\_\_\_\_
- \_\_\_\_\_

2. ☐ Send to Data Extraction contractors this material:

- ☒ Newly stamped accepted label
- ☐ Notification
- ☐ New CSF
- ☐ Other: \_\_\_\_\_

3. Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, **NOT STAPLED**. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer's Name: Dani Samil

Phone: 703 305-5409 Division: RD

Date: 04/23/09



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (H7505P)  
1200 Pennsylvania Avenue NW  
Washington, D.C. 20460

EPA Reg.  
Number:  
**82542-17**

Date of Issuance:

Term of Issuance: **Conditional**

Name of Pesticide Product:  
**Imidacloprid 75% WDG  
Insecticide**

**NOTICE OF PESTICIDE:**

☒ **Registration**  
☐ **Reregistration**

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

**Mr. Rufus Bastian  
Source Dynamics LLC  
10039 E. Troon North Drive  
Scottsdale, AZ 85262**

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.


On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A). Once a pesticide is registered, however, it is not regarded as permanently acceptable. Registration does not eliminate the need for continual reassessment of pesticides. If the Agency determines that, at any time, additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under FIFRA section (3)(c)(2)(B).

**1. Revise the EPA Registration Number to read, EPA Reg. No. "82542-17"**

Signature of Approving Official:

  
**Venus Eagle  
Product Manager 01  
Insecticide-Rodenticide Branch  
Registration Division (7505P)**

Date:

**APR 23 2009**

2. Within eighteen months of the date of this registration, submit to the Agency the required one year storage stability study (830.6317) for the proposed product under warehouse conditions. The corrosion characteristics study (830.6320) may be carried out concurrently. It is recommended that observations be made at 0, 3, 6, 9, and 12 months. **(Provided the parent registration submits the above data you will not be responsible for the above.)**

3. Submit two copies of your final printed label before you release the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitute acceptance of these conditions.

A stamped copy of the label is enclosed for your records. If you have any questions regarding this notice contact Dani Daniel at 703 305-5409.

ACCEPTED  
APR 23 2009  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
Registered under  
EPA Reg. No. 82542-17

Source Dynamics 090421

## IMIDACLOPRID 75% WDG INSECTICIDE

For control of listed insects in labeled crops, turfgrass (including sod farms), landscape ornamentals, fruit and nut trees and interior landscapes

### ACTIVE INGREDIENT

Imidacloprid:

1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinone.....75.0%

OTHER INGREDIENTS.....25.0%

TOTAL.....100.0%

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**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

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See inside label booklet for First Aid, Precautionary Statements and Directions for Use

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EPA Reg. No. 82542-17

EPA Est. No.

Net Contents

Manufactured for:

Source Dynamics LLC  
10039 E. Troon North Drive  
Scottsdale, AZ 85262  
tel. 480-502-9289

FIRST AID	
If swallowed:	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If on skin or clothing:	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If in eyes:	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact Chemtrec at 1-800-424-9300 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
No specific antidote is available. Treat the patient symptomatically.	

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**CAUTION**

Harmful if swallowed, inhaled, or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing dust or vapor. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Keep children or pets off treated area until spray is dry.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

**WPS USES:** Applicators and other handlers who handle this product for any use covered by the Worker Protection Standard (40 CFR part 170) – in general, agricultural plant uses e.g., use in sod farms, must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment, PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**NON-WPS USES:** Applicators and other handlers who handle this product for any use NOT covered by the Worker Protection Standard (40 CFR part 170) – in general, only agricultural plant uses are covered by the WPS, must wear:

- Shirt and pants
- Chemical-resistant gloves made of any waterproof material such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton
- Shoes plus socks

#### **ENGINEERING CONTROLS STATEMENTS**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **USER SAFETY RECOMMENDATIONS**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to wildlife and highly toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

**TAKE THE FOLLOWING PRECAUTIONS WHEN MIXING AND APPLYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS; MARSHES OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS:**

#### **SPRAY DRIFT MANAGEMENT**

The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

#### **Mixing and Loading Requirements**

To avoid potential contamination of groundwater, the use of a properly designed and maintained containment pad for mixing and loading of any pesticide into application equipment is recommended. If containment pad is not used, maintain a minimum distance of 25 feet between mixing and loading areas and potential surface to groundwater conduits such as field sumps, uncased well head, sinkholes or field drains.

#### **For Aerial Applications**

For aerial applications mount the spray boom on the aircraft so as to minimize drift caused by wing tip vortices. Use the minimum practical boom length. Do not exceed 75% of the wing span or rotor diameter.

#### **Importance of Droplet Size**

An important factor influencing drift is droplet size. Small droplets (<150-200 microns) drift to a greater extent than large droplets. Within typical equipment specifications make applications to deliver the largest droplet spectrum that provides sufficient control and coverage. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure.

Release spray at the lowest possible height consistent with good pest control and flight safety. Do not use applications more than 10 feet above the crop canopy.

#### **Wind Speed Restrictions**

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size, canopy and equipment specifications determine drift potential at any given wind speed. Do not apply when winds are greater than 15 mph and avoid gusty and windless conditions. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

#### **Restrictions During Temperature Inversions**

Do not make aerial or ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however if fog is not present, inversions can also be identified by the movement of smoke from a ground source. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical mixing.

#### **Airblast (Air Assist) Specific Instructions for Tree Crops and Vineyards**

Airblast sprayers carry droplets into the canopy of trees/vines via a radially or laterally directed air stream. Follow the following specific management practices:



- Adjust deflectors and aiming devices so that spray is only directed into the canopy;
- Block off upward pointed nozzles when there is no overhanging canopy;
- Use only enough air volume to penetrate the canopy and provide good coverage;
- Do not allow the spray to go beyond the edge of the cultivated area (i.e., turn off sprayer when turning at end rows);
- Only spray inward, toward the orchard or vineyard, for applications to the outside rows.

#### **No-Spray Zone Requirements for Foliar Applications**

Do not apply by ground within 25 feet, or by air within 150 feet of lakes; reservoirs; rivers; permanent streams, marshes or natural ponds; estuaries and commercial fish farm ponds.

#### **Runoff Management**

Do not cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip. When used on erodible soils, employ the best management practices for minimizing runoff. Consult your Natural Resources Conservation Service for instructions in your use area.

#### **Endangered Species Notice**

Under the Endangered Species Act, it is a Federal Offense to use any pesticide in a manner that results in the death of a member of an endangered species. Consult your local county bulletin, County Extension Agent, or Pesticide Lead Agency for information concerning endangered species in your area.

#### **Resistance Management**

Certain insects may develop resistance to insecticides after repeated use. Use different resistance management practices including rotating classes of insecticides will help delay or minimize insect resistance.

Source Dynamics Imidacloprid 75% WDG Insecticide contains the active ingredient imidacloprid which is a Group A Insecticide. Repeated use of Group A insecticides may lead to insects that become resistant to imidacloprid or other neonicotinoids (Group 4A) insecticides.

To reduce the chances of development of resistance to Group 4A insecticides, do not make more than three consecutive applications of Source Dynamics Imidacloprid 75% WDG Insecticide and/or other Group 4A insecticides with similar modes of action. In addition, Source Dynamics strongly recommends the use of other insecticides with a different mode of action prior to or after application of Source Dynamics Imidacloprid 75% WDG Insecticide. This strategy of insecticide rotation in concert with other IPM practices is considered an effective way to delay or minimize an insect's ability to develop resistance to this class of chemistry.

Additional information on insect resistance management may be obtained from your local extension specialist, certified crop advisor and/or product manufacturer, or from the Insecticide Resistance Action Committee (IRAC) on the web at <http://irac-online.org/>.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**Do not formulate this product into other end-use products.**

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

**Exception:** If the product is applied by drenching, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton
- Shoes plus socks

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep children and pets off treated area until dry.

## CROP USES

Make applications of Source Dynamics Imidacloprid 75% WDG Insecticide as a broadcast or directed foliar spray. Follow the directions below to obtain optimum control when using Source Dynamics Imidacloprid 75% WDG Insecticide.

- Use Source Dynamics Imidacloprid 75% WDG Insecticide in a sufficient volume of water to ensure a thorough, uniform coverage of foliage. Include a spray adjuvant to help increase spray coverage. Inadequate coverage and wash-off of Source Dynamics Imidacloprid 75% WDG Insecticide from foliage will result in a delay of insect control or in poor insect control.
- Use properly calibrated ground and/or air application equipment unless otherwise specified. Refer to the specified rates under each crop for spray volumes for ground and air applications.

Source Dynamics Imidacloprid 75% WDG Insecticide may also be applied by overhead chemigation (see additional CHEMIGATION DIRECTIONS FOR USE section below) if allowed in the crop specific sections of this label.

The use of Source Dynamics Imidacloprid 75% WDG Insecticide on crops grown for production of true seed intended for private or commercial planting is not supported but may be allowed under State-specific supplemental labeling. Caution must be used to minimize exposure of Source Dynamics Imidacloprid 75% WDG Insecticide to honey bees and other pollinators. Delay applications until after bloom on crops requiring bee pollination. Do not apply Source Dynamics Imidacloprid 75% WDG Insecticide for a minimum of 10 days prior to bloom. Your local Source Dynamics representative, Cooperative Extension Service, PCAs, or consultants can provide additional information on Source Dynamics Imidacloprid 75% WDG Insecticide uses for these crops.

Do not apply more than 0.5 lbs. active ingredient per acre per crop season, regardless of formulation or method of application, unless specified otherwise under the applications section for a given crop.

Do not apply Source Dynamics Imidacloprid 75% WDG Insecticide in enclosed structures such as Greenhouses or Planthouses.

### Mixing Directions

To prepare a spray tank of Source Dynamics Imidacloprid 75% WDG Insecticide, follow the steps below:

1. Add 50% of the total amount of water to the spray tank. Begin agitation.
2. Add the appropriate amount of Source Dynamics Imidacloprid 75% WDG Insecticide.
3. Complete filling the tank with the remaining amount of water needed. Agitate during both mixing and application.

Source Dynamics Imidacloprid 75% WDG Insecticide may also be applied with other pesticides and/or fertilizer solutions. Before mixing or applying these tank mixtures, read the Compatibility Testing section below. Prepare tank mixtures of Source Dynamics Imidacloprid 75% WDG Insecticide and other pesticides as directed above and follow the suggested Order of Mixing for Tank-Mixes below.

**Compatibility Testing**

Before adding Source Dynamics Imidacloprid 75% WDG Insecticide or other products to a spray tank, carry out a compatibility test. Use a pint or quart jar with a lid and add proportionate amounts of each ingredient to the jar in the appropriate order. Cap the jar and shake for 5 minutes. Let the mixture sit for 5 minutes. If the mixture forms a precipitate that cannot be re-dispersed or mixes poorly, do not use the mixture.

**Order of Mixing for Tank-Mixes**

When tank-mixing Source Dynamics Imidacloprid 75% WDG Insecticide with other products, use the following order of mixing:

1. Source Dynamics Imidacloprid 75% WDG Insecticide and other wettable powders
2. Flowables (suspension concentrates)
3. Emulsifiable concentrates.

During the mixing process, agitate the solution. Add the next product only after the previous one has been thoroughly mixed. When adding a fertilizer solution, a fertilizer pesticide compatibility agent may be needed. Continue agitation of the spray solution during mixing and until application is complete to ensure the spray mixture remains uniform.

**CHEMIGATION DIRECTIONS FOR USE**

Refer to the Directions for Use section of this label before proceeding with chemigation application.

**Types of Irrigation Systems**

Chemigation applications of Source Dynamics Imidacloprid 75% WDG Insecticide may be made to crops through overhead chemigation systems if permitted in the crop specific sections of this label. Do not apply Source Dynamics Imidacloprid 75% WDG Insecticide through any other type of irrigation system.

**Water Volume**

Make Source Dynamics Imidacloprid 75% WDG Insecticide chemigation applications as concentrated as possible. Retention of Source Dynamics Imidacloprid 75% WDG Insecticide on target site of insect infestation is necessary for optimum activity. Chemigation of Source Dynamics Imidacloprid 75% WDG Insecticide in water volumes exceeding 0.1 inch/Acre is not recommended.

**Uniform Water Distribution and System Calibration**

The irrigation system must provide uniform distribution of treated water. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

**Chemigation Monitoring**

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

**Drift**

Do not apply when wind speed favors drift beyond the area intended for treatment.

**Required System Safety Devices**

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

**Using Water from Public Water Systems**

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and to the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional automatic quick-closing check valve to prevent the flow of fluid back toward the injection. The pesticide injection pipeline must contain a functional normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

**ROTATIONAL CROP RESTRICTIONS**

Crops listed on imidacloprid labels or crops that have existing tolerances for imidacloprid may be planted in treated areas as soon as practical after the last imidacloprid application. Crops that are not found on an imidacloprid label, or crops that do

not have existing tolerances for imidacloprid, may not be planted in treated areas for 12-months after the last application. Refer to the table below for plantback intervals for different crops. Note that if cover crops are planted any time after an Source Dynamics Imidacloprid 75% WDG Insecticide application, those crops may not be grazed or harvested for food or feed.

Crops	Plantback Interval
All crops on this label plus the following crops not on this label: barley, canola, corn (field, sweet and pop), rapeseed, sorghum, sugar beet, and wheat	No restrictions
Cereals (including buckwheat, millet, oats, rice, rye, and triticale), soybeans, safflower	30 days
Onion and bulb vegetables	10 months
All other crops	12 months

#### FIELD CROPS

##### Application Directions

Use Source Dynamics Imidacloprid 75% WDG Insecticide at the rates specified in the tables below as a broadcast or directed foliar spray. Begin treatments when areas become infested and as the pest populations begin to build. Optimum results are achieved when Source Dynamics Imidacloprid 75% WDG Insecticide is applied in sufficient water to provide a thorough, uniform coverage of foliage and crops. To improve spray coverage, add a spray adjuvant to the spray solution. If crops are infested with heavy insect populations Source Dynamics Imidacloprid 75% WDG Insecticide may not result in knockdown control. In those situations, a second application may be required, but monitor field to determine if a second application is necessary. Improved control of some pests and knockdown of insect pests may be obtained with a mixture of Source Dynamics Imidacloprid 75% WDG Insecticide and other registered insecticides.

##### COTTON

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Cotton Tank Mixes With Source Dynamics Imidacloprid 75% WDG	Restrictions
Pests Controlled: Bandedwinged whitefly Bollworm/Budworm (ovicidal effect)	0.7 – 1.3 oz. per Acre		

# **COTTON ( Cont'd )**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Cotton Tank Mixes With Source Dynamics Imidacloprid 75% WDG	Restrictions
Cotton aphid Cotton fleahopper Green stink bug Plant bugs (excludes <i>Lygus hesperus</i> ) Southern Green stink bug			Pre-Harvest Interval (PHI): 14 days.  Do not apply more than 6.5 oz. (0.31 lb. A/A) per Acre per season.  Wait 7 days between applications.  Do not graze treated fields.
<b>Suppression only:</b> Lygus bug ( <i>Lygus hesperus</i> ) Whiteflies (other than bandedwinged whitefly)	1.0 – 1.3 oz. per Acre		
<b>For early season control of</b> Insects listed above plus: Thrips	0.7 – 1.0 oz. per Acre	Bidrin® 8: 1.6 – 3.2 oz. per Acre	
<b>For mid to late season control of</b> Insects listed above plus: Cotton leafperforator Grasshoppers Plant bugs Saltmarsh caterpillar Stink bugs (including Brown stink bug)		Bidrin 8: 4.0 – 8.0 oz. per Acre  Read the Bidrin 8 label for precautions and other specific directions for use.	

# **POTATO**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
Aphids Colorado potato beetle Flea beetles Leafhoppers Psyllids	1.0 oz. per Acre	Pre-Harvest Interval (PHI): 7 days. Wait 7 days between applications. Do not apply more than 4.0 oz. (0.19 lb. A/A) Source Dynamics Imidacloprid 75% WDG per Acre per crop season.

**TOBACCO**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
Aphids	0.5 – 1.1 oz. per Acre	Pre-Harvest Interval (PHI): 14 days.
Flea beetles Japanese beetle	1.1 oz. per Acre	Wait 7 days between applications.  Do not apply more than 6.0 oz. (0.28 lb. A/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.

**VEGETABLE AND SMALL FRUIT CROPS****Application Directions**

Use Source Dynamics Imidacloprid 75% WDG Insecticide at the rates specified in the tables below as a broadcast or directed foliar spray. Begin treatments when areas become infested and as the pest populations begin to build. Optimum results are achieved when Source Dynamics Imidacloprid 75% WDG Insecticide is applied in sufficient water to provide a thorough, uniform coverage of foliage and crops. To improve spray coverage, add a spray adjuvant to the spray solution. If crops are infested with heavy insect populations Source Dynamics Imidacloprid 75% WDG Insecticide may not result in knockdown control. In those situations, a second application may be required, but monitor field to determine if a second application is necessary. Improved control of some pests and knockdown of insect pests may be improved with a mixture of Source Dynamics Imidacloprid 75% WDG Insecticide and other registered insecticides.

The crops which are listed as being covered under a Crop Group are subject to change by EPA. Consult EPA's website ([www.epa.gov](http://www.epa.gov)) for the most recent crops included under Crop Groups.

**FRUITING VEGETABLES**

Includes the crops in Crop Group 8: Eggplant, Ground cherry, Okra, Pepper (including bell, chili, cooking, pimento, and sweet), Tomato, Pepinos, Tomatillo

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
Aphids Colorado potato beetle Leafhoppers Whiteflies	1.0 oz. per Acre	Pre-Harvest Interval (PHI): 0 days.  Wait 5 days between applications.



#### FRUITING VEGETABLES ( Cont'd )

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
Pepper weevil (Peppers only) <sup>1</sup>	1.6 oz. per Acre	Do not apply more than 5.0 oz. (0.23 lb. A/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season  Do not use on crops grown for seed unless accompanied by state-specific supplemental labeling.
<sup>1</sup> Pepper weevil: Begin applications before insect pressure becomes high enough to cause damage. Make applications using ground equipment only. Ensure the foliage and fruit receive a thorough coverage of spray solution. Incorporate Source Dynamics Imidacloprid 75% WDG Insecticide applications into a full-season program in which other insecticides from different classes of chemistry and different modes of action are employed in a blocked or windowed approach. Additional information can be obtained from your Source Dynamics representative, Extension Specialist or crop advisor.		

#### GLOBE ARTICHOKE

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
Aphids Leafhoppers	1.1 – 2.7 oz. per Acre	Pre-Harvest Interval (PHI): 7 days.  Wait 14 days between applications.  Do not apply more than 10.7 oz. (0.5 lb. A/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.

#### HEAD and STEM BRASSICA VEGETABLES

Includes the crops in Crop Group 5: Broccoli, Broccoli raab (rapini), Brussels sprouts, Cabbage, Cauliflower, Cavalo broccoli, Chinese (gai lon) broccoli, Chinese (bok choy) cabbage, Chinese (napa) cabbage, Chinese mustard (gai choy) cabbage, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens, Turnip (tops or leaves)

#### LEAFY VEGETABLES

Includes the crops in Crop Group 4: Amaranth (leafy amaranth, Chinese spinach, tampala), Arugula (roquette), Chervil, Chrysanthemum (edible leaved and garland), Cilantro, Corn salad, Cress (garden), Cress (upland, yellow rocket, winter cress), Dandelion, Dock (sorrel), Endive (escarole), Lettuce (head and leaf), Orach, Parsley, Purslane (garden and winter), Radicchio (red chicory), Spinach (including New Zealand and vine (Malabar spinach, Indian spinach)), Watercress (commercial production only\*\*), Watercress (upland)

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
Aphids Flea beetles Leafhoppers Whiteflies	1.0 oz. per Acre	Pre-Harvest Interval (PHI): 7 days  Wait 5 days between applications.  Do not apply more than 5.0 oz. (0.23 lb. AIA) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.  For applications made to watercress, drain water from all production fields at least 24 hours before application. Water must not be reapplied to the field for a minimum of 24 hours after application. Apply only to fully leafed-up canopies.  **Do not apply to native cress growing in streams or other bodies of water.  Do not use on crops grown for seed unless accompanied by state-specific supplemental labeling.

#### LEGUME VEGETABLES

Includes the crops in Crop Group 6 (except soybean, dry): Edible Podded and Succulent Shelled Pea and Bean and Dried Shelled Pea and Bean

[Bean (*Lupinus* spp., including grain lupin, sweet lupin, white lupin, and white sweet lupin), Bean (*Phaseolus* spp., including field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean), Bean (*Vigna* spp., including adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean,

mung bean, rice bean, Southern pea, urd bean, yardlong bean), Pea (*Pisum* spp. including dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea), Other Beans and Peas (Broad bean (fava), Chickpea (garbanzo bean), Guar, Jackbean, Lablab bean (hyacinth bean), Lentil, Pigeon pea, soybean (immature seed), Sword bean))

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
Aphids Leafhoppers Whiteflies	0.9 oz. per Acre	Pre-Harvest Interval (PHI): 7 days  Wait 7 days between applications.  Do not apply more than 2.8 oz. (0.13 lb. AI/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.  Do not use on crops grown for seed unless accompanied by state-specific supplemental labeling.

#### ROOT, TUBEROUS and CORM VEGETABLES

Includes the crops in Crop Group 1 (except sugarbeet): Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Beet (garden)\*, Burdock (edible)\*, Canna (edible, Queensland arrowroot), Carrot\*, Cassava (bitter & sweet)\*, Celeriac\*, Chayote (root), Chervil (turnip-rooted)\*, Chickory\*, Chufa, Dasheen (taro)\*, Ginger, Ginseng, Horseradish, Leren, Parsley (turnip-rooted), Parsnip\*, Radish\*, Oriental radish (daikon)\*, Rutabaga\*, Salsify (black)\*, Salsify (oyster plant), Salsify (Spanish), Skirret, Sweetpotato\*, Tanier (cocoyam)\*, Turmeric, Turnip\*, Yam bean (jicama, manioc pea), Yam (true)\*

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
Aphids Flea beetles Leafhoppers Whiteflies	0.9 oz. per Acre	Pre-Harvest Interval (PHI): 7 days.  Wait 5 days between applications.  Do not apply more than 0.9 oz. (0.044 lb. AI/A) per Acre on Radishes, and no more than 2.8 oz. (0.13 lb. AI/A) per Acre on other crops.

**ROOT, TUBEROUS and CORM VEGETABLES ( Cont'd )**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
		Do not make more than 1 application per crop season on Radishes and no more than 3 applications per season on other crops.  Do not use on crops grown for seed unless accompanied by state-specific supplemental labeling.  *Tops or greens from these crops may be used for food or feed.

**STRAWBERRY**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
Aphids Spittlebugs Whiteflies	1.0 oz. per Acre	Pre-Harvest Interval (PHI): 7 days.  Wait 5 days between applications.  Do not apply more than 3.0 oz. (0.14 lb. AI/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.  Do not apply during bloom or within 10 days prior to bloom or when bees are actively foraging.

**TREE, BUSH and VINE CROPS**

**Application Directions**

Use Source Dynamics Imidacloprid 75% WDG Insecticide at the rates specified in the tables below as a broadcast or directed foliar spray. Begin treatments when areas become infested and as the pest populations begin to build. Optimum results are achieved when Source Dynamics Imidacloprid 75% WDG Insecticide is applied in sufficient water to provide a thorough, uniform coverage of foliage and crops. To improve spray coverage, add a spray adjuvant to the spray solution. If crops are infested with heavy insect populations Source Dynamics Imidacloprid 75% WDG Insecticide may not result in knockdown control. In those situations, a second application may be required, but monitor field to determine if a second application is necessary.

Improved control of some pests and knockdown of insect pests may be improved with a mixture of Source Dynamics Imidacloprid 75% WDG Insecticide and other registered insecticides. Applications made by air may not provide quick control or desired control as compared to results obtained from ground applications. NOTE: the rates specified in the tables below for tree and vine crops are based on trees and vines that are full-size and mature.

The crops which are listed as being covered under a Crop Group are subject to change by EPA. Consult EPA's website ([www.epa.gov](http://www.epa.gov)) for the most recent crops included under Crop Groups.

#### BUSHBERRY

Includes the crops in Crop Subgroup 13: Blueberry, Currant, Elderberry, Gooseberry, Huckleberry, Juneberry, Lingonberry, Salal

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
Aphids Leafhoppers/Sharpshooters	0.8 – 1.1 oz. per Acre	Pre-Harvest Interval (PHI): 3 days. Wait 7 days between applications. Do not apply more than 10.7 oz. (0.5 lb. AI/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season. Do not make more than 5 applications per crop season.
Blueberry maggot Japanese beetles (adults) Thrips	1.6 – 2.1 oz. per Acre	Apply in a minimum of 20 gal. water per acre by ground and 5 gal. water per acre by air. Do not apply pre-bloom or during bloom or when bees are actively foraging.

#### CITRUS

Includes the crops in Crop Group 10: Calamondin, Citrus citron, Citrus hybrids (includes chironja, tangelo and tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Pummelo, Orange (sweet and sour), Tangelo, Satsuma mandarin, White sapote (*Casimiroa* spp.), and other cultivars and/or hybrids of these

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
<b>PESTS CONTROLLED:</b> Aphids Asian citrus psyllid Black fly Leafhoppers/Sharpshooters Leafminers Mealybugs Scales <sup>1</sup> Whiteflies	2.7 – 5.3 oz. per Acre (depending on tree size, target pest and infestation pressure)	Pre-Harvest Interval (PHI): 0 days. Wait 10 days between applications.  Do not apply more than 10.7 oz. (0.5 lb. AI/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.  Do not apply during bloom or within 10 days prior to bloom or when bees are actively foraging.
<b>SUPPRESSION ONLY:</b> Thrips	2.7 – 5.3 oz. per Acre	
<sup>1</sup> Scales: Begin application at the crawler stage, and treat succeeding generations.		

#### GRAPE

Includes American bunch grape, Muscadine grape and Vinifera grape

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
Leafhoppers/ Sharpshooters Mealybugs	0.8 – 1.0 oz. per Acre	Pre-Harvest Interval (PHI): 0 days. Wait 14 days between applications.
Grapeleaf skeletonizer <sup>1</sup>	1.0 oz. per Acre	Do not apply more than 2.0 oz. (0.1 lb. AI/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.
<sup>1</sup> Grapeleaf skeletonizer: Optimum control is achieved from ground applications that provide a thorough coverage of foliage. Aerial applications may provide suppression.		

#### HOPS

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
Aphids	2.1 oz. per Acre	Pre-Harvest Interval (PHI): 28 days. Wait 21 days between applications.  Do not apply more than 6.4 oz. (0.3 lb. AI/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.

# **PECAN**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
Aphids (use the higher rate for Black pecan aphid) <i>Phylloxera</i> Spittlebugs	0.9 – 1.9 oz. per Acre	Do not apply after shuck split. Wait 10 days between applications. Do not apply more than 7.5 oz. (0.35 lb. A/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season. Do not use in California unless accompanied by supplemental labeling.

# **POME FRUIT**

Includes the crops in Crop Group 11: Apple, Crabapple, Loquat, Mayhaw, Pear (including Oriental pear), Quince

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
Leafhoppers <sup>1</sup>	1.2 – 2.1 oz. per Acre	Pre-Harvest Interval (PHI): 7 days. Wait 10 days between applications.
Aphids (except woolly apple aphid) <sup>2</sup> Leafminers <sup>3</sup> San Jose scale <sup>4</sup>	2.1 oz. per Acre	Do not apply more than 10.7 oz. (0.5 lb. A/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.
<b>PEARS ONLY</b> Mealybugs <sup>5</sup> Pear psylla	5.3 oz. per Acre	Do not apply pre-bloom or during bloom or when bees are actively foraging.

<sup>1</sup>**Leafhoppers:** Use the lower rate for low to moderate infestations of white apple leafhopper. The higher rate is used for high white apple leafhopper populations or to control other leafhopper species. Time applications to occur when most leafhoppers are in the nymphal stage.

<sup>2</sup>**Rosy apple aphid:** apply before leafrolling is observed.

<sup>3</sup>**Leafminers:** Begin applications to control first generation leafminers as soon after pollination is completed and bees are no longer in the orchard. Early timing is critical for best control of this pest. To control second and succeeding generations, apply early in the adult flight against egg and early instar larvae. Make a second repeat application if required (i.e., for continued severe pressure, overlap of generations) but wait 10 days between applications. Note that Source Dynamics Imidacloprid 75% WDG will not control late stage larvae. Suppression may result from a single application.

<sup>4</sup>**San Jose Scale:** Begin application at the crawler stage, and treat succeeding generations.

<sup>5</sup>**Mealybug:** Best results are obtained when the trunk and limbs (or other places where mealybugs rest) are thoroughly covered with Source Dynamics Imidacloprid 75% WDG sprays applied at the maximum gal. per acre.

**STONE FRUIT**

Includes the crops in Crop Group 12: Apricot, Cherry (including sweet and tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh and dried)

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
<b>PESTS CONTROLLED:</b> Aphids Green June beetle Japanese beetle Leafhoppers/Sharpshooters Plant bugs Rose chafer San Jose scale	1.1 – 2.1 oz. per Acre	<b>All Crops</b> Do not apply pre-bloom or during bloom or when bees are actively foraging.  <b>Apricot, Nectarine, Peach:</b> Pre-Harvest Interval (PHI): 0 days.  Wait 7 days between applications.  Do not apply more than 6.4 oz. (0.3 lb. AI/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.  Apply in a minimum of 50 gal. water per acre by ground and 25 gal. water per acre by air.
Cherry fruit fly (maggot of Eastern and Western)	1.6 – 2.1 oz. per Acre	<b>Cherries, Plums, Plumcot, Prune:</b> Pre-Harvest Interval (PHI): 7 days.  Wait 10 days between applications.  Do not apply more than 10.7 oz. (0.5 lb. AI/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.



**TROPICAL FRUIT**

Includes: Acerola, Avocado, Black sapote, Canistel, Feijoa, Jaboticaba, Guava, Longan, Lychee, Mamey sapote, Mango, Papaya, Passionfruit, Pulasan, Rambutan, Sapodilla, Spanish lime, Star apple, Starfruit, Wax jambu

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
<b>PESTS CONTROLLED:</b> Aphids Leafhoppers/Sharpshooters Thrips Whiteflies <b>SUPPRESSION ONLY:</b> Scales	2.1 oz. per Acre	Pre-Harvest Interval (PHI): 7 days. Wait 10 days between applications. Do not apply more than 10.7 oz. (0.5 lb. AI/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season. Do not apply pre-bloom or during bloom or when bees are actively foraging.

**OTHER CROPS****Application Directions**

Use Source Dynamics Imidacloprid 75% WDG Insecticide at the rates specified in the tables below as a broadcast or directed foliar spray. Begin treatments when areas become infested and as the pest populations begin to build. Optimum results are achieved when Source Dynamics Imidacloprid 75% WDG Insecticide is applied in sufficient water to provide a thorough, uniform coverage of foliage and crops. If crops are infested with heavy insect populations Source Dynamics Imidacloprid 75% WDG Insecticide may not result in knockdown control. In those situations, a second application may be required, but monitor field to determine if a second application is necessary. Improved control of some pests and knockdown of insect pests may be improved with a mixture of Source Dynamics Imidacloprid 75% WDG Insecticide and other registered insecticides.

**POPLAR/COTTONWOOD**

Includes members of the genus *Populus* grown for pulp or timber

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
Aphids Leaf beetles	1.1 – 2.1 oz. per Acre	Wait 10 days between applications. Do not apply more than 10.7 oz. (0.5 lb. AI/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season. Do not use in California unless accompanied by supplemental labeling.

**CHRISTMAS TREE**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
Adelgids <sup>1</sup> Aphids Sawflies	1.1 – 2.1 oz. per Acre	Wait 7 days between applications. Do not apply more than 10.7 oz. (0.5 lb. AI/A) Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per crop season.

**CHRISTMAS TREE ( Cont'd )**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Restrictions
<sup>1</sup> Gall-forming adelgids: Apply at full bud-swell or first bud-break of earliest bud-breaking trees. Once galls form, applications of Source Dynamics Imidacloprid 75% WDG will not be effective.		

**TURF USES**

**Application Directions**

Source Dynamics Imidacloprid 75% WDG Insecticide controls the larvae of listed insect pests found in turfgrass and suppresses larvae of cutworms and chinchbugs in turfgrass. Treatment areas include turfgrasses found around the home, multi-family residential complexes, business and office complexes, shopping centers, parks, playgrounds, athletic fields, golf courses, airports, cemeteries, and sod farms.

The residual activity of Imidacloprid, the active ingredient in Source Dynamics Imidacloprid 75% WDG Insecticide, allows applications of Source Dynamics Imidacloprid 75% WDG to be made just before egg-laying. If applied just before or during egg-laying, Source Dynamics Imidacloprid 75% WDG Insecticide provides excellent control of target pest larvae. To determine the timing of an application, use information from previous year's insect infestations, current season's evaluations, or other methods. You may also consult your local State Agricultural Experiment Station or State Extension Turf Specialists for additional information regarding timing of application.

Source Dynamics Imidacloprid 75% WDG Insecticide provides best results from application before egg-laying along with adequate watering-in (from irrigation or rainfall) to allow the imidacloprid to penetrate the thatch layer and reach the soil where insect larvae often reside. Delay any application of Source Dynamics Imidacloprid 75% WDG Insecticide if the turfgrass is very wet or saturated with water as the imidacloprid will not be evenly distributed in the thatch under these conditions. Ensure that any irrigation is directed vertically so that the imidacloprid moves down into the thatch and soil.

**TURF**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Directions for Application	Restrictions
Larvae of: Annual bluegrass Weevil* Asiatic garden beetle Billbugs*	6.4 to 8.6 oz. per Acre (3 to 4 level teaspoons per 1,000 sq. ft.)	Use a sufficient amount of water when applying Source Dynamics Imidacloprid 75% WDG Insecticide and ensure that the product is applied evenly to the treated area.	Do not apply more than 8.6 oz. (0.4 lb. AIIA) per Acre per year.

**TURF ( Cont'd )**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Directions for Application	Restrictions
Black turfgrass ataenius Cutworms (suppression) European chafer European Crane Fly* Green June beetle Japanese beetle Northern masked chafer Oriental beetle <i>Phyllophaga</i> spp.* Southern masked chafer	6.4 to 8.6 oz. per Acre (3 to 4 level teaspoons per 1,000 sq. ft.)	Use accurately calibrated equipment that is normally used for the application of turfgrass insecticides. Recalibrate if necessary to verify equipment is operating properly.  Select the proper equipment that produces a uniform, coarse droplet spray. Low pressure settings decrease the chance of drift to non-target areas.  <b>*Note:</b> Make applications before initiation of hatching of eggs of these pests to obtain best control.	Adequate watering-in (from irrigation or rainfall) within 1 day of application allows the imidacloprid to penetrate the thatch layer and provide optimum control.  Delay mowing of turf or lawn until irrigation or rainfall has occurred to ensure a uniform distribution of the product.
Chinchbug (suppression) Mole crickets	8.6 oz. per Acre (4 level teaspoons per 1,000 sq. ft.)	<b>Chinchbug suppression:</b> apply before the first instar nymphs hatch.  <b>Mole Crickets:</b> apply before or during peak egg hatch period. Apply Source Dynamics Imidacloprid 75% WDG Insecticide as a tank mix with another insecticide that controls mole crickets when adult or large nymphs are present and actively tunneling. Follow the instructions on the label for other insecticides when tank-mixing.	
<b>Conversion Units:</b> 3 level teaspoons = 1 level Tablespoon (1 level teaspoon = 1.4 grams Source Dynamics Imidacloprid 75% WDG Insecticide)			

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## ORNAMENTALS

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### Application Directions

Source Dynamics Imidacloprid 75% WDG Insecticide may be used on ornamentals such as trees, shrubs, evergreens, flowers, foliage plants, and groundcovers found in commercial and residential landscapes and interior plantscapes. Imidacloprid, the Active Ingredient (AI) in Source Dynamics Imidacloprid 75% WDG, works by entering the plant through the roots and moving upward. Insects feeding on the plant are controlled or suppressed from exposure to imidacloprid. In order for the product to be effective, Source Dynamics Imidacloprid 75% WDG must be applied when the plant is actively growing and absorbing water and nutrients. Nitrogen fertilizers, when applicable, act as nutrients and may be added to Source Dynamics Imidacloprid 75% WDG spray solutions to help move the imidacloprid into the plant.

Foliar, soil (including soil-injection and soil drenches), and broadcast applications of Source Dynamics Imidacloprid 75% WDG may be made. Source Dynamics Imidacloprid 75% WDG applied foliarly, controls insects quickly by local, systemic activity. When applied to the soil of woody plants, Source Dynamics Imidacloprid 75% WDG control may take longer (in some cases up to 60 days) because the imidacloprid must reach the plant roots and move up and through the plant. To be most effective, apply Source Dynamics Imidacloprid 75% WDG before insects are expected to infest plants.

### Management of Ant Populations

Source Dynamics Imidacloprid 75% WDG Insecticide will control certain listed sucking insects on ornamentals which, in turn, reduces the honeydew available as a food source for ant populations. These Source Dynamics Imidacloprid 75% WDG Insecticide treatments can be useful in addition to traditional ant population control measures such as residual insecticide sprays, use of baits or other ant control programs. **NOTE:** Do not use Source Dynamics Imidacloprid 75% WDG for management of ant populations in commercial greenhouses, nurseries, or on grasses grown for seed, or on commercial fruit and nut trees.

### Foliar Applications

Mix Source Dynamics Imidacloprid 75% WDG Insecticide with the required amount of water and apply using application equipment typically employed for ornamentals.

Some foliage such as holly, pine, or ivy are difficult to wet by foliar applications. Add a spreader/sticker for best results. Note: when applying using concentrate or mist type sprayers, add the same amount of product on the area sprayed as is required in dilute applications.

**Tank-Mixes:** Although Source Dynamics Imidacloprid 75% WDG Insecticide is compatible with other commonly used fungicides, miticides, liquid fertilizers, and insecticides. Conduct a compatibility check prior to using the tank-mix to ensure that the tank-mix is stable.

When making **broadcast applications** to outdoor ornamentals, do not exceed a total of 8.6 oz. (0.4 lb. AI) per Acre per year.

Do not apply through any irrigation system.

**TREES, SHRUBS, EVERGREENS, FLOWERS FOLIAGE PLANTS, GROUNDCOVERS, AND INTERIOR PLANTSCAPES**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG (level measure)	Directions for Application	Restrictions
Adelgids Aphids Japanese beetle Lace bugs Leaf beetles (including elm and viburnum leaf beetles) Leafhoppers (including glassy-winged sharpshooter) Mealybugs Psyllids Sawfly larvae Thrips (suppression) Whiteflies	0.25 tsp. in 2.5 gal. water 0.5 tsp. in 5 gal. water 1 tsp. in 10 gal. water 2.5 tsp. in 25 gal. water 5 tsp. in 50 gal. water 3 Tbsp. + 1 tsp. in 100 gal. water	<b>Foliar Applications:</b> Time applications to begin before insect pressure is high. Make repeat applications as needed.	For use only in and around industrial and commercial buildings and residential areas.
White grub larvae (such as Japanese beetle larvae, Chafers, <i>Phyllophaga</i> spp., Asiatic garden beetle, Oriental beetle)	3 to 4 level teaspoons per 1,000 sq. ft.	<b>Broadcast Applications:</b> Use a sufficient amount of water to ensure a thorough coverage of the treated area. For optimum control, adequate irrigation is required after an application of Source Dynamics Imidacloprid 75% WDG Insecticide to move the imidacloprid into the soil and near the plant roots.  Additional use directions may be found under FLOWERS and GROUNDCOVERS.	Do not apply more than a total of 8.6 oz. (0.4 lb. A/I/A) per Acre per year when making broadcast applications to outdoor ornamentals.  Do not apply in less than 2 gallons of water per 1,000 sq. ft.

**TREES, SHRUBS, FLOWERS AND GROUNDCOVERS**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Directions for Application	Restrictions
Adelgids Aphids Armored Scales (suppression) Black vine weevil larvae Emerald ash borer Eucalyptus longhorned borer Flathead borers (including bronze birch borer and alder borer) Japanese beetles Lace bugs Leaf beetles (including elm and viburnum leaf beetles) Leafhoppers (including glassy-winged sharpshooter) Leafminers Mealybugs Pine tip moth larvae Psyllids Royal palm bugs Sawfly larvae Soft scales Thrips (suppression) White grub larvae Whiteflies	<p><b>TREES:</b> 0.7 to 1.4 level tsp. per inch of trunk diameter (D.B.H.) or 1 to 2 oz. per 30 cumulative inches of trunk diameter (D.B.H.)</p> <p>drip line of the tree and extending in from that line. More than one circle must be made depending on the tree size. <b>BASAL SYSTEM:</b> The injection holes must be placed evenly around the base of the tree trunk but no more than 6 to 12 inches out from the base. Use a sufficient amount of water and inject an equal amount of solution in each hole. Use low pressure and enough solution to distribute the liquid into the treatment zone. For optimum control, moisten the treated area by irrigation for 7 to 10 days after the application. Use at least 4 holes per tree.</p> <p><b>Soil Drench:</b> Apply in a minimum of 10 gallons of water per 1,000 sq. ft. Drench around the base of the tree in a uniform manner but be sure the spray is directed at the root zone. If any plastic or other barrier is present, remove it so that the treatment reaches the root zone. <b>For Control of Specified Borers:</b> If trees have been heavily infested and damaged or under stress, the application may not be effective or prevent the loss of the trees.</p> <p><b>SHRUBS:</b> 0.7 to 1.4 level tsp. per ft. of shrub height or 1 to 2 oz. per 30 cumulative feet of shrub height</p> <p>Using low pressure, apply enough solution to distribute the liquid into the treatment zone. For optimum control, moisten the treated area by irrigation for 7 to 10 days after the application. Use at least 4 holes per shrub. <b>Soil Drench:</b> Apply in a</p>	<p><b>Soil Injection:</b> GRID SYSTEM: Space holes on 2.5 foot centers in a grid pattern that extends to the drip line of the tree. CIRCLE SYSTEM: Apply product in holes spaced in circles under the</p> <p><b>Soil Injection:</b> Use the specified rate for individual plants. Use a sufficient amount of water and inject the same volume of solution into each hole.</p>	<p>For use only in and around industrial and commercial buildings and residential areas and state, national and private wooded and forested areas to control listed insect pests.</p> <p>Do not make Soil Injection Applications in Nassau or Suffolk Counties of New York.</p>

**TREES, SHRUBS, FLOWERS AND GROUNDCOVERS ( Cont'd )**

Insect Pests	Rate of Source Dynamics Imidacloprid 75% WDG	Directions for Application	Restrictions
	minimum of 10 gallons of water per 1,000 sq. ft. Drench around the base of the shrub in a uniform manner but be sure the spray is directed at the root zone. If any plastic or other barrier is present, remove it so that the treatment reaches the root zone.		
	<b>FLOWERS AND GROUNDCOVERS:</b> 3 to 4 level Tsp. per 1,000 sq. ft.	Make a broadcast application and soil-incorporate the product before planting. Alternatively, make the application after plants have been established. After application to established plants, best control of insects is achieved by irrigation of the treated area.	
<b>Conversion Units:</b> 3 level teaspoon s = 1 level Tablespoon (1 level teaspoon = 1.4 grams Source Dynamics Imidacloprid 75% WDG Insecticide)			

**FRUIT AND NUT TREES: Pome Fruit (including Apple, Crabapple, Loquat, Mayhaw, Pear, Pear (oriental), and Quince) AND Pecans**

Insect Larvae	Rate of Source Dynamics Imidacloprid 75% WDG	Directions for Application	Restrictions
<b>POME FRUIT:</b> Aphids (except Woolly Apple aphid) <sup>2</sup> Leafhoppers (including glassy-winged sharpshooter) <sup>1</sup> Leafminer <sup>3</sup> Mealybugs <sup>*4</sup> San Jose scale <sup>*5</sup>	0.5 oz. (3 Tbsp. + 1 tsp.) per 100 gal. (equivalent to 2 oz. per Acre <sup>#</sup> )	Make applications after petal fall.	For use only in and around residential areas. Do not apply more than 2 oz. per Acre per application and do not exceed 5 applications per year. Wait 10 or more days between applications. Waive at least 7 days after application to harvest the crop.

**FRUIT AND NUT TREES: Pome Fruit (including Apple, Crabapple, Loquat, Mayhaw, Pear, Pear (oriental), and Quince) AND Pecans ( Cont'd )**

Insect Larvae	Rate of Source Dynamics Imidacloprid 75% WDG	Directions for Application	Restrictions
			*Not registered for use in California for control of these pests on pears. See additional Restrictions, below.
<b>PECANS**:</b> Black margined aphid Pecan leaf phylloxera Pecan spittlebug Pecan stem phylloxera Yellow pecan aphid	0.5 oz. (3 Tbsp. + 1 tsp.) per 100 gal. (equivalent to 2 oz. per Acre <sup>1</sup> )	Time applications to begin when pest pressure begins but before pressure is heavy. Best control may require two foliar applications 10 to 14 days apart if scouting activities find insect pressure after the first application. Apply Source Dynamics Imidacloprid 75% WDG in sufficient volumes to ensure a thorough, uniform coverage of the foliage. Coverage may be improved by adding an organosilicone-based spray adjuvant. Refer to the label rates specified by the adjuvant's manufacturer.	For use only in and around residential areas. Do not apply more than 6 oz. Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per year and do not exceed 3 applications per year. Wait 10 or more days between applications. **Not registered for use on pecans in California unless accompanied by supplemental labeling. See additional Restrictions, below.
<sup>1</sup> <b>Leafhoppers:</b> If a late season (preharvest) control of leafhoppers is required, apply Source Dynamics Imidacloprid 75% WDG when most leafhoppers are in the nymphal stage. <sup>2</sup> <b>Rosy apple aphid:</b> apply before leafrolling is observed. <sup>3</sup> <b>Leafminers:</b> Begin applications as soon after petal fall as possible to control the first generation. To control second and succeeding generations, apply early in the adult flight against egg and early instar larvae. Make a second repeat application if required (i.e., for continued severe pressure, overlap of generations) but wait 10 days between applications. Note that Source Dynamics Imidacloprid 75% WDG will not control late stage larvae. Suppression may result from just a single application.			



**FRUIT AND NUT TREES: Pome Fruit (including Apple, Crabapple, Loquat, Mayhaw, Pear, Pear (oriental), and Quince) AND Pecans ( Cont'd )**

Insect Larvae	Rate of Source Dynamics Imidacloprid 75% WDG	Directions for Application	Restrictions
<p><sup>a</sup><b>Mealybug:</b> Best results are obtained when the trunk and limbs (or other places where mealybugs rest) are thoroughly covered with spray solution.</p> <p><sup>b</sup><b>San Jose Scale:</b> Begin application at the crawler stage, and treat succeeding generations.</p> <p><sup>c</sup> Tree size and amount of foliage on trees will determine the amount of Source Dynamics Imidacloprid 75% WDG required per Acre. This equivalent rate is based on use of 400 gal. per Acre of dilute sprays for larger trees.</p> <p><b>Conversion Units:</b> 3 level teaspoons = 1 level Tablespoon (1 level teaspoon = 1.4 grams Source Dynamics Imidacloprid 75% WDG Insecticide)</p>			

**GRAPES**

Insect Larvae	Rate of Source Dynamics Imidacloprid 75% WDG	Directions for Application	Restrictions
<p>Leafhoppers including glassy-winged sharpshooter Mealybugs Grape leaf Skeletonizer</p>	<p>0.5 oz. (3 Tbsp. + 1 tsp.) per 100 gal. (equivalent to 1 oz. per Acre)</p>	<p>Apply in a minimum of 200 gal. per Acre.</p>	<p>For use only in and around industrial and commercial buildings and residential areas.</p> <p>Do not apply more than 2 oz. Source Dynamics Imidacloprid 75% WDG Insecticide per Acre per year and do not exceed 3 applications per year.</p> <p>Wait 14 or more days between applications.</p> <p>Harvest may be made the same day as the last application.</p> <p>See additional Restrictions, below.</p>
<p><b>Conversion Units:</b> 3 level teaspoons = 1 level Tablespoon (1 level teaspoon = 1.4 grams Source Dynamics Imidacloprid 75% WDG Insecticide)</p>			

#### RESTRICTIONS FOR TURF AND ORNAMENTAL USES

- Do not graze treated areas or use clippings from treated areas for feed or forage
- Avoid run-off or puddling of irrigation water following application
- Keep children and pets off treated area until dry.
- Avoid application of Source Dynamics Imidacloprid 75% WDG Insecticide to areas which are water-logged or saturated or frozen which will not allow penetration into the root zone of the plant.
- Do not apply more than 8.8 oz. (0.4 lb AI) per Acre per year unless otherwise specified on this label.
- Treated areas may be replanted with any crop specified on this label or with any crop for which a tolerance exists for imidacloprid.
- For crops not listed on this label, or for crops for which no tolerances for imidacloprid have been established, a 12-month plant-back interval is required.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in a cool, dry place and in such a manner as to prevent cross-contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up the spilled material to prevent runoff. Refer to the Precautionary Statements section of this label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste facility.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**WARRANTY STATEMENT: IMPORTANT NOTICE** - Seller warrants that this product conforms to the chemical description and is reasonably fit for purposes stated on the label when used in accordance with the directions and instructions under normal conditions of use; to the extent consistent with applicable law, neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

Bidrin® is a registered trademark of the Arvin Chemical Corporation.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

January 6, 2009

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

OPP Decision Number: D-404488  
EPA File Symbol or Registration Number: 82542-RT  
Product Name: IMIDACLOPRID 75%WDG INSECTICIDE  
EPA Receipt Date: 02-Jan-2009  
EPA Company Number: 82542  
Company Name: SOURCE DYNAMICS, LLC

RUFUS BASTIAN  
SOURCE DYNAMICS, LLC  
10039 E. TROON NORTH DRIVE  
SCOTTSDALE, AZ 85262-

SUBJECT: Receipt of Registration Application Subject to Registration Service Fee

Dear Registrant:

The Office of Pesticide Programs has received your application and certification of payment. If you submitted data with this application, the results of the PRN-86-5 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: R300

NEW PRODUCT;ME-TOO PRODUCT FAST TRACK;

No additional payment is due at this time.

If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman at (703) 305-6249.

Sincerely,

  
Front End Processing Staff  
Information Technology & Resources Management Division

# Fee for Service

W  
{842469N~

This package includes the following

- ☒ New Registration
- ☐ Amendment

- ☐ Studies?      ☐ Fee Waiver?
- ☐ volpay    % Reduction: \_\_\_\_

for Division

- ☐ AD
- ☐ BPPD
- ☒ RD

Risk Mgr. 1

Receipt No.

S-

842469

EPA File Symbol/Reg. No.

82542-RT

Pin-Punch Date:

1/2/2009

- ☐ This item is NOT subject to FFS action.

## Action Code:

Requested:

R300

Granted:

R300

Amount Due: \$ 1365<sup>00</sup>

## Parent/Child Decisions:

☒ Inert Cleared for Intended Use



Uncleared Inert in Product

Reviewer: 

Date: 1/6/09

Remarks:

100% packs

# PRIA 2 - 21 Day Content Screen Review Worksheet

(EPA/OPP Use Only) 4/9/08

21 Day Screen Start Date: 1/2/09

Date: 1/8/09

Experts In-Processing Signature: Mary Waller

Fee Paid: Yes ☐

Division management contacted on issues No ☐ Yes ☐

Date 1/2/09

EPA Reg. Number: <u>82542 - RT</u>		EPA Receipt Date: <u>1/2/09</u>			
Items for Review			Yes	No	N/A*
1	<b>Application Form</b> (EPA Form 8570-1) signed & complete including package type		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Confidential Statement of Formula all boxes completed, form signed, and dated (EPA Form 8570-4) <i>Repack</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a) All inerts, except fragrances, approved for food and non food proposed uses (see Footnote A) <i>Repack / N/A</i>	Yes <input type="checkbox"/> No <input type="checkbox"/>			
3	<b>Certification with Respect to Citation of Data</b> (EPA Form 8570-34) completed and signed (N/A if 100% repack)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Certificate and data matrix consistent		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)	Yes <input type="checkbox"/> No <input type="checkbox"/>			
	If applicable, is there a letter of Authorization for exclusive use only.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<b>Formulator's Exemption Statement</b> (EPA Form 8570-27) completed and signed (N/A if source is unregistered or applicant owns the technical)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<b>Data Matrix</b> (EPA Form 8570-35) both internal and external copies (PR 98-5) completed and signed (N/A if 100% repack)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	a) Selective Method (Fee category experts use)	Yes <input type="checkbox"/> No <input type="checkbox"/>			
	b) Cite-All (Fee category experts use)	<input type="checkbox"/> <input type="checkbox"/>			
	c) Applicant owns all data (Fee category experts use)	<input type="checkbox"/> <input type="checkbox"/>			
6	<b>5 Copies of Label</b> (Electronic labels on CD are encouraged )		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<b>Is the data package consistent with PR Notice 86-5</b>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	Notice of Filing (link to included with petitions)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

9	If applicable for conventional applications, reduced risk rationale	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	Required Data and/or data waivers. See Footnote C.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a) List study (or studies) not included with application			

**Comments:**

Date Start:

Date End:

\* N/A - Not Applicable

#### Footnotes

A. This consideration does not apply to PRIA applications that include a request to approve an inert in the fee category. For these PRIA actions, information needs to be submitted to enable the Agency to review the inert approval request and will be a subject of the 21 day content screen. For other types of actions and for fragrances, the answer is only for the Agency's information and current policies, processes, and procedures should be consulted. This worksheet will be updated in the future to be consistent with current policies.

If brand, trade, or proprietary names are being used for some inert ingredients listed on the CSF, alternate names or additional information on the nature of the ingredient(s) should be provided to allow the Agency to determine whether the inert has been approved.

B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.

C. Refer to the list of data requirements. Biopesticide applicants were advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.

REGNR	CONAME	TREASDEPNR	FMDAMOUNT	DNUMBER
082542	TERRY STOJIC	99DC90244	00001365	24V63UVD ✓
082542	TERRY STOJIC	99DC90244	00001365	24V63VJO
082542	TERRY STOJIC	99DC90244	00001365	24V63VSF
082542	TERRY STOJIC	99DC90244	00001365	24V640B1
082542	TERRY STOJIC	99DC90244	00001365	24V640IG
082542	TERRY STOJIC	99DC90244	00001365	24V6404K





United States  
Environmental Protection Agency  
Washington, DC 20460

☒ Registration  
☐ Amendment  
☐ Other

OPP Identifier Number

## Application for Pesticide - Section I

1. Company/Product Number 82542-x <u>RT</u>	2. EPA Product Manager Venus Eagle	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Imidacloprid 75% WDG Insecticide	PM# 01	
5. Name and Address of Applicant (Include ZIP Code)  Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale, AZ 85262  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. <u>                    </u> Product Name <u>                    </u>	

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated <u>                    </u>
<input type="checkbox"/> Resubmission in response to Agency letter dated <u>                    </u>	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input checked="" type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

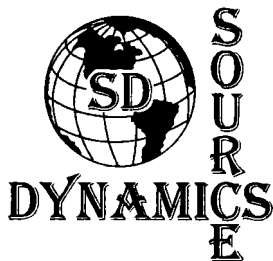
Registration application for a new end-use product. This is a 100% repack of a registered end-use product.

## Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) <u>                    </u>		
* Certification must be submitted		If "Yes" Unit Packaging wgt.      No. per container	If "Yes" Package wgt.      No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 1 quart		5. Location of Label Directions <input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input checked="" type="checkbox"/> Other <u>plastic sleeve</u>			

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Rufus Bastian	Title President	Telephone No. (Include Area Code) 480-502-9289
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature <u>Rufus Bastian</u>	3. Title President	
4. Typed Name Rufus Bastian	5. Date December 24, 2008	



December 24, 2008

Document Processing Desk (APPL)  
Office of Pesticide Programs (P7504P)  
Environmental Protection Agency  
Room S-4900, One Potomac Yard (South Building)  
2777 S. Crystal Drive  
Arlington, VA 22202

Attn: Venus Eagle (PM 01)

Dear Ms. Eagle:

Subject: Imidacloprid 75% WDG Insecticide: Registration Application

Source Dynamics LLC wishes to apply for the registration of a new end-use product, Imidacloprid 75% WDG Insecticide. This is a 100% repack of a registered product. In support of this application we have enclosed the following:

Application for Pesticide Registration (8570-1)  
Confidential Statement of Formula (8570-4)  
Formulators Exemption Statement (8570-27)  
Proposed label (6 copies)

We have concluded that this regulatory action falls in PRIA II Category R300, for which a fee of \$1365 is required. Documentation of payment is provided.

Thank you for your consideration of this project. Please contact me if you have any questions.

Sincerely,

Rufus Bastian, President  
Source Dynamics LLC  
rbastianllc@cox.net

10039 E. Troon North Drive  
Scottsdale, AZ 85262

Tel. 480.502.9289

Fax 480.502.9268



United States  
**Environmental Protection Agency**  
 Washington, DC 20460  
**Formulator's Exemption Statement**  
 (40 CFR 152.85)

Applicant's Name and Address Source Dynamics LLC 10039 E. Troon North Drive Scottsdale, AZ 85262	EPA File Symbol/Registration Number 82542-X
	Product Name Imidacloprid 75% WDG Insecticide
	Date of Confidential Statement of Formula (EPA Form 8570-4) 12/24/2008

As an authorized representative of the applicant for registration of the product identified above, I certify that:

- (1) This product contains the following active ingredient(s):

imidacloprid

- (2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging another product which contains that active ingredient which is registered under FIFRA Section 3, is purchased by us from another person and meets the requirements of 40 CFR section 158.50(e)(2) or (3).

- (3) Indicate by checking (A) or (B) below which paragraph applies:

- ☒ (A) An accurate Confidential Statement of Formula (EPA FORM 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

OR

- ☐ (B) The Confidential Statement of Formula (CSF)(EPA Form 8570-4) referenced above and on file with the EPA is complete, current, an accurate and contains the information required on the current CSF.

- (4) The following active ingredients in this product qualify for the formulator's exemption.

Source		
Active Ingredient	Product Name	Registration Number
imidacloprid	[REDACTED]	[REDACTED]
Signature <i>Rufus Bastian</i>	Name and Title Rufus Bastian, President	Date 12/24/2008

EPA Form 8570-27 (Rev. 06-2004)

Copy 1 - EPA  
 Copy 2 - Applicant copy

\*Product ingredient source information may be entitled to confidential treatment\*

